

BODY BUILDER'S GUIDE HILLIX 2020

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INTRODUCTION

This guidebook contains descriptions of various basic matters required for and cautions to be exercised when bodybuilding or making alterations to the base vehicles in cab and chassis conditions.

All body-builders are requested to use this guidebook in design and conducting their body-building and alteration work, always keeping in mind the direct or indirect effect that the body-building or alteration job is expected to have on the component parts and the system of the base vehicles.

The description in this guidebook is aimed at the vehicles manufactured from May, 2015. Note that all the vehicles manufactured subsequently may be covered by different descriptions due to specification changes, etc. This guidebook does not contain any service data or any description on methods of repair.

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DEFINITIONS

Explains symbols used in this manual

Explains something that, if not obeyed, could cause death or serious injury to people.
Explains something that, if not obeyed, could cause damage to or a malfunction in the vehicle or its equipment.

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[1] MODEL STRUCTURE

1. Meaning of model code

		<u>GUN</u>	<u>125</u> <u>L</u> -	<u>B</u> <u>N</u> <u> </u>	<u> </u>	<u>S</u> <u>F</u>	<u> H W 3</u>		
		1	2 3	4 5	6	7 (3 9 1)	
$\widehat{1}$		TGN	TR series			1TR(2	.0L). 2TR(2.7L)		
	ωg	KUN	KD Series			1KD(3	.0L). 2KD(2.5L)		
	gin	GGN	GR Series			1GR(4	.0L)		
	Se	LAN	L Series			5L(3.0	L)		
		GUN	GD Series			1GD(2	.8L), 2GD(2.4L)	
2	Ð		Type of body	Drive		Wheel	Base		
	Jas	11 <u>0</u>		4x2		Short V	Nheel base	110,111,112	
	티	12 <u>0</u>	Dickup	4x2				120,121,122,123	
	hee	12 <u>5</u>	гіск ир	4x4		Long V	Vheel base	125,126,127,128	
	\geq	13 <u>5</u>		Pre-Runne	r			135,136,138	
	and		Add "0", "1", "2", "3" to	o <u>O</u> figure					
	n a		+0	+1		+2		+3	
	ster	Type of	1TR	2TR		2KD-L	0	2TR-FFV*1	
	Sys	Engine	2KD	1KD		2GD-L	.0	1KD-Lo	
	/e		2GD	1GD				1GD-Lo	
	Driv		1GR						
3	Steering	R	Right Hand drive	I.					
	Position	L	Left Hand Drive						
4		В	Single Cab						
	Cab Type	С	Extra Cab						
		D	Double Cab						
5	Made in	G	Argentina			N	South Africa		
_	Made III	Р	Pakistan			Т	Thailand		
(6)		M	5-Speed Manual, Floo	or					
	Transmission	F	6-Speed Manual, Floo	or 					
		A T	5-Speed Automatic, F	loor					
		I	6-Speed Automatic, F	loor					
\mathcal{D}		M	Middlo						
	Grade	S	Standard						
	Oldde	0	Low						
		X	Lowest						
(8)		K	Multi Valve Petrol				1TR, 2TR, 1G	R	
		G	Multi Valve Petrol (FF	V*1)			2TR-FFV*1		
	Facino	Y	Turbo Common Rail	Diesel			1KD, 2KD-Lo/	/Hi, 1/2GD Lo	
	Engine	Н	High Power Diesel				2KD-VNT, 1/2	GD Hi	
	System	J	i-ART Diesel*2				1GD i-ART*2		
		Х	Turbo Common Rail	Diesel (Clean Em	ission)		1/2GD Hi		
		E	EFI Diesel		r		5L-E		
9		В	Myanmar		l	<u>D</u>	Indonesia		
		E	Malaysia			F	Central & Sou	ith America	
	uo	G	Brazil/Argentina			H	Algeria		
	lati	J	Kenya South Africo / Africa				Philippines		
	stir						Takisian		
	De	<u> </u>	Thailand				Vietnam		
	_	I V	GCC		1	N	Furone/Russi	2	
		- V	General		<u>ر</u> ۱	/ v		u	
(10)	Package	3	Cab & Chassis Model	(Deck less)					
	Model	-	Complete Vehicle						
L									

*1: FFV: Flex Fuel Vehicle

*2: i-ART: intelligent Accuracy Refinement Technology

2. List of vehicle models

Destination	Engine	Drive	e Long wheel base					
			Single cab	O/F	Extra cab	O/F	Double cab	O/F
Australia	2TR	2WD	TGN121R-BTMXKQ3	Narrow				
	2TR	2WD	TGN121R-BTTXKQ3	Narrow				
	2TR	2WD	TGN121R-BTMLKQ3	Narrow				
	2TR	2WD	TGN121R-BTTLKQ3	Narrow				
	2GD Lo	2WD	GUN122R-BTMXYQ3	Narrow				
	1GD Lo	2WD	GUN123R-BTMSYQ3	Narrow				
	2GD Hi	4WD	GUN125R-BTFXHQ3	Narrow	GUN125R-CTFXHQ3	Wide	GUN125R-DTTXHQ3	Wide
	2GD Hi	4WD	GUN125R-BTTXHQ3	Narrow	GUN125R-CTTXHQ3	Wide	GUN125R-DTTLXQ3	Wide
	2GD Hi	4WD	GUN125R-BTFLXQ3	Narrow	GUN125R-CTTLXQ3	Wide		
	1GD Hi	4WD	GUN126R-BTFSHQ3	Narrow	GUN126R-CTFSHQ3	Wide	GUN126R-DTFSHQ3	Wide
	1GD Hi	4WD	GUN126R-BTTSHQ3	Narrow	GUN126R-CTTSHQ3	Wide	GUN126R-DTTSHQ3	Wide
	1GD Hi	4WD	GUN126R-BTFSXQ3	Narrow	GUN126R-CTFSXQ3	Wide	GUN126R-DTFSXQ3	Wide
	1GD Hi	4WD	GUN126R-BTTSXQ3	Narrow	GUN126R-CTTSXQ3	Wide	GUN126R-DTTHXQ3	Wide
	1GD Hi	4WD					GUN126R-DTTSXQ3	Wide
	2GD Hi	Pre-Runner (2WD)	GUN135R-BTFXHQ3	Narrow				
	2GD Hi	Pre-Runner (2WD)	GUN135R-BTFLXQ3	Narrow				
New Zealand	1GD Hi	Pre-Runner (2WD)	GUN136R-BTFSHQ3	Narrow				
	1GD Hi	Pre-Runner (2WD)	GUN136R-BTFSXQ3	Narrow				
Central & South	2TR	2WD	TGN121L-BTMXK3	Narrow				
America	2GD Hi	Pre-Runner	GUN135L-BGFXHG3	Narrow				
		(2WD)	GUN135L-BGFLXG3	Narrow				
	2GD Hi	4WD	GUN125L-BGFXHG3	Narrow				
			GUN125L-BGFLXG3	Narrow				
	1GD Hi	4WD	GUN126L-BGFLXG3	Narrow				
	1GD i-ART	4WD	GUN126L-BGFXJG3	Narrow				
Europe	2GD Hi	4WD	GUN125R-BNFSXW3	Narrow Wide*	GUN125R-CNFSXW3	Wide	GUN125R-DNFSXW3	Wide
	2GD Hi	4WD	GUN125L-BNFSXW3	Narrow	GUN125L-CNFSXW3	Wide	GUN125L-DNFSXW3	Wide
	2GD Hi	4WD	GUN125L-BNFSHW3	Narrow	GUN125L-CNFSHW3	Wide	GUN125L-DNFSHW3	Wide
	2GD Hi	Pre-Runner (2WD)	GUN135L-BNFXXW3	Narrow	GUN135L-CNFXXW3	Wide		
	2GD Hi	Pre-Runner (2WD)	GUN135L-BNFXHW3	Narrow	GUN135L-CNFXHW3	Wide		
	2GD Hi	Pre-Runner (2WD)	GUN135L-BNFLXW3	Narrow	GUN135L-CNFLXW3	Wide		
G.C.C.	2TR	2WD	TGN121L-BTMLKV3	Narrow				
	2TR	4WD	TGN126L-BTMLKV3	Narrow				
	2KD Lo	2WD	KUN122L-BTMSYV3	Narrow				
	2KD Lo	2WD	KUN122L-BTMLYV3	Narrow				
	2GD Lo	2WD	GUN122L-BTMLXV3	Narrow				
	2GD Lo	2WD	GUN122L-BTMSXV3	Narrow				
Pakistan	2KD Lo	2WD	KUN122R-BPMLYP3	Narrow				
	2KD Lo	2WD	GUN122R-BPMLYP3	Narrow				
	2KD Lo	2WD	GUN122R-BPMLXP3	Narrow				
Philippines	2GD Lo	2WD	GUN122L-BTMXYM3	Narrow				
	2GD Lo	2WD	GUN122L-BTMLXM3	Narrow				

Thailand	2GD	2WD	GUN120R-BTTXHT3	Narrow		
	2GD	2WD	GUN120R-BTTLXT3	Narrow		
	2GD Lo	2WD	GUN122R-BTMXYT3	Narrow		
	2GD Lo	2WD	GUN122R-BTFXYT3	Narrow		
	2GD Lo	2WD	GUN122R-BTFLXT3	Narrow		
General (Mexico)	2TR	2WD	TGN121L-BTMXK3	Narrow		
	2TR	2WD	TGN121L-BTMLK3	Narrow		
Kenya	2GD	4WD	GUN125R-BNFSHN3	Narrow Wide*		
	2GD	4WD	GUN125R-BNFXHN3	Narrow		
	2GD	4WD	GUN125R-BNFLXN3	Narrow		
S. Africa	1TR	2WD	TGN120R-BNMXKN3	Narrow		
	1TR	2WD	TGN120R-BNMLKN3	Narrow		
	2GD Lo	2WD	GUN122R-BNMXYN3	Narrow		
	2GD Lo	2WD	GUN122R-BNMLXN3	Narrow		
	2GD	4WD	GUN125R-BNFSHN3	Narrow Wide*		
	2GD	4WD	GUN125R-BNFSXN3	Narrow Wide*		
W. Africa	5L-E	4WD	LAN125L-BNMXEN3	Narrow		
	5L-E	4WD	LAN125L-BNMLEN3	Narrow		
Angola	2GD	4WD	GUN125L-BNFXHN3	Narrow		
	2GD	4WD	GUN125L-BNFLXN3	Narrow		

*: Option

O/F: Over Fender

3. Engine number stamp location

The engine number is stamped on the engine block as shown.

1TR and 2TR engines

1GD and 2GD engines

1KD and 2KD engines







5L-E engine



[2] BASIC MATTERS FOR BODY-BUILDING AND ALTERATIONS

1. Assuming responsibility

All body builders shall modify Toyota Vehicles strictly in accordance with the "Body Builder's Guide" and any other technical material or instruction separately prescribed by Toyota.

Body Builder shall assume all the responsibility for any fault, deficiency or defect caused in or by such modification, and shall indemnify and hold Toyota Motor Corporation, Regional distributors, Dealers thereof harmless from and against any loss or damage caused to any third party by or resulting from any fault, deficiency or defect in or by such modification.

2. Compliance with laws and regulations

Body builders are required to design and fabricate their vehicles in such a manner that the vehicles built or altered by them conform to the laws and regulations including safety and exhaust gas standards applied to finished vehicles of their respective countries.

2-1 Coverage of laws and regulations

On the Cab & Chassis models, all items except the following 3 items have received authorization for Europe.

- For the following 3 items, vehicle accessory manufacturers must apply for and receive authorization from a third party.
 - 1. Rear underrun protective devices
- 2. Installation position of rear lamps (including fog lamps)
- 3. Rear license plates

Apart from the 3 items mentioned above, on the Cab & Chassis models, some authorized items have mounting restrictions.

For items that are applied to the mounting restrictions, specific measures are required to comply with regulations.

· Items with mounting restrictions:

1) Fuel tanks (For Europe only)

When there are no vehicle accessories placed on a fuel tank, install a steel cover to it. For the installation position of the cover, refer to the following illustration.



2) Rearward visibility (outside rear view mirrors)

For narrow over fenders (Single Cab) : The width of vehicle accessories should be less than 1800mm. For wide over fenders (Extra & Double Cab) : The width of vehicle accessories should be less than 1855mm.

• Ensure good rearward visibility when mounting vehicle accessories with width other than those specified above.

(Ex. Adjust the installation position of the mirrors outward using adapters.)

3) Extra cab (For Europe only)

Install the door edge protector moulding, which is mounted on the vehicle, to the rear end of the access panel when either of the following conditions is applicable:

- When the width of vehicle accessories, which are to be mounted from the rear of the cab, is narrower than the overall width of the cab
- When the height of vehicle accessories does not meet the protrusion requirements of the access panel edges
- 3)-1 Door Edge Installation Instruction for Extra Cab (For Europe only)

Install the side protector moulding set to the rear end of the access panel LH/RH (to meet protrusion requirements).

Components of side protector me		r moulding set (75	305-0K01	0)	
ſ	Part name	Part No	Q'tv	Note	

	Part name	Part No.	Q'ty	Note
a)	Moulding, door edge protector	75739-0K060	2	L720
b)	Tape, moulding, No.1	75895-0K060	2	t:0.4, w:7, L:720

- 1. Take the side protector moulding set (75805-0K010) out of the rear seat floor box.
- 2. Using a degreaser, remove any dirt and oil from the rear outer edge of the access panel LH where the No. 1 moulding tape will be applied.
- 3. Open the side protector moulding set, and take the door edge protection moulding (75739-0K060) and the No.1 moulding tape (75895-0K060) out of the side protector moulding set.



4. While peeling off the white release paper, apply the No. 1 moulding tape to the access panel LH, at a location 60mm from the lower end and approx. 2mm from the outer edge of the access panel LH.

No.1 Moulding Tape application area:





The illustration shows the left side.

- 5. Firmly press on the No. 1 moulding tape.
- 6. Apply primer to the inner side of the door edge protector moulding.
- 7. Align the edge of the door edge protector moulding with the upper end of the No. 1 moulding tape, and then temporarily install the door edge protector moulding to the rear end of the access panel LH.
- 8. Peel off the red release paper from the No. 1 moulding tape, using the tab tape, and press on the door edge protector moulding firmly.



9. Use the same procedure for the access panel RH.

In making alterations to vehicles, care should be taken to design and fabricate them in such a manner as to satisfy various related laws and regulations with an ample allowance.

(Such laws and regulations always represent the minimum limit of requirements to be met by the particular bodybuilding or alteration work.)

Be sure that the materials used for body-building or alterations sufficiently meet the legal requirements, the performance and safety standards, and that the resulting vehicle should be as lightweight as possible.

After body-building or alteration work is complete, check to see whether the materials or parts used for such work are produced as designed and satisfy predetermined performance requirements and functions, and also whether they contain no defects.

3. Securing basic performance and safety requirements

All body-builders are required to make sure that the inherent functions of the base vehicle are not lost by the particular body-building or alterations. Also, make sufficient study to make sure that any changes of the standard parts are free of functional problems from both technical and safety points of view.

- The forward field of view should not be blocked by the body-building or alterations.
- The chassis frame should not be damaged by the body-building or alterations.
- No difference in weight between right and left wheels should occur due to the body-building or alterations.
- All body-building job should be conducted in a manner avoiding local concentration of the load on the chassis frame. In order to distribute the load over the frames, all the wheels should be located on the same plane without distorting the frame.
- The materials and parts involved in the body-building or alteration work should be designed and fabricated to facilitate the inspection and maintenance of the chassis parts after they are mounted on the vehicles.

Limitations are set for the length, width, height and weight of the parts mounted according to the particular base vehicle. Any restrictions which may be imposed in each country should be complied with.

[1] Vehicle width

In order to secure safe drive, the overhang of a mounted part is expected to be less than measured from the outermost point of the cab of the base vehicle (not including the outside mirror).

In case of narrow over fender = Less than 1800mm

In case of wide over fender = Less than 1855mm

Compliance with laws and regulation is required. (i.e. outside mirror visibility requirement)

[2] Rear overhang

The rear overhang should be as shown in the following depending on the body style and the length of the wheelbase of the base vehicle.

Please see the limitation of its extension below.



The rear overhang is defined as the horizontal distance from the rear axle center to the rear end.

[3] Recommended body clearance



	Description	Dimension (mm)
*1	Minimum clearance between the back of the cab and the body	25
*2	Minimum clearance between the top of the cab and the body	30

The dimensions are reference values. Secure an appropriate gap as necessary depending on the strength and alignment of the alteration.

[4] Limitation of front axle load ratio (when loaded with cargo)

In order to secure running safety, the ratio of the load exerted on the front axle should be set as follows (Distribute the cargo weight uniformly over the whole vehicle). (For Europe.)



[5] Maximum permissible slant angle

This means the maximum slant angle at which the vehicle remains unoverturned when unloaded.

The longer the tread is, or the lower the center of gravity is, the larger this angle is.



The maximum permissible slant of completed vehicle with special equipment should be more than 35°.



[6] Height of gravity center

Model		Gravity center height of base vehicle (C&C) mm
	Single cab	590
2WD	Extra cab	600
	Double cab	610
Pre- Runner	Single cab	665
	Extra cab	685
	Double cab	695
4WD	Single cab	645
	Extra cab	665
	Double cab	675

[7] Weight

(1) Weight check

Measure and determine the curb weight of the built or altered vehicle. Take a measurement of the front axle weight and the rear axle weight separately. (Each value must not be more than their respective tolerances.)



(2) Relation between building or alteration weight and load

(Example)

Item	Model	GUN122R-BTMXYQ3
C.W. of base vehic	1590	
Special equipment permanent attachm	A	
Total weight of pas and baggage	В	
G.V.W. of finished	2810	

*: Refer to the "Chassis and Cab Curb Weight" in the 【5】MAJOR TECHNICAL SPECIFICATIONS.

In the case where the weight of the finished vehicle [C.W. of base vehicle (C&C) + A] increases, the maximum allowable load is reduced as the G.V.W. is fixed.

C.W. of base vehicle (C&C)	Weight of built or altered equipment	Passengers and cargo	G.V.W.	
(1590) + A + B ≦ 2810				

(3) Relation between overall vehicle weight and maximum allowable axle weight

A CAUTION:

(F) = Front axle weight after building or alteration \leq Front G.A.W.R. (Gross Axle Weight Rating)

(R) = Rear axle weight after building or alteration \leq Rear G.A.W.R. (Gross Axle Weight Rating)

 $(F) + (R) \leq G.V.W.$

Refer to [5] MAJOR TECHNICAL SPECIFICATIONS.

[8] Recommended vehicle weight and dimensions after alteration

When registering altered vehicles in a country adopting WLTP, make sure the following conditions are met.





R	Do not exceed 1/2 l
Maximum rear overhang	(Refer to 【2】-3. [3] Rear overhang)
W	Do not exceed 1800mm (Narrow over fender) / 1855mm (Wide over fender)
Maximum body width	(Refer to [2] -3. [2] Vehicle width)
H Maximum overall height	Do not exceed 2300mm (Single cab) / 2200mm (Extra & Double cab)
Maximum weight of conversion part	Do not exceed 500 kg (Refer to 【2】-3. [7] Weight)

Model code: (The model code ends with a "W" like so GUN125/135-****W)

GUN125L-BNFSXW3 GUN125L-CNFSXW3 GUN125L-DNFSXW3 GUN125R-BNFSXW3 GUN125R-CNFSXW3 GUN125R-DNFSXW3 GUN135L-BNFXXW3 GUN135L-CNFXXW3 GUN135L-BNFLXW3 GUN135L-CNFLXW3

Information as of June 2020. The applicable models are subject to change without prior notice.

When the vehicle is altered into a box truck, etc., the base specifications, such as the fuel consumption, may be affected.

[9] Lights, sensors, and radar adjustments

Adding accessories to the vehicle can change the vehicle's attitude, which can then necessitate the readjustment of lights, sensors, and radar devices. If you have any questions, consult your local Toyota dealer.

4. No alterations to important safety parts

The important safety parts and components (such as the front axle, steering-related and brake-related parts, chassis frame, engine, suspension and drive unit) must not be modified (either by welding, reinforcement, machining, heating or otherwise).

5. Serviceability

Do not install accessories so that they impede the removal, installation, inspection or servicing of auxiliary parts on the chassis.

(Example)

- ① Engine oil inspection, replenishing and discharge
- 2 Coolant level inspection, coolant replenishing and discharge
- 3 Transmission oil inspection, replenishing and discharge
- (4) Differential oil inspection, replenishing and discharge
- (5) Battery fluid inspection and refilling; battery removal/installation
- 6 Fuel replenishing
- \bigcirc Brake fluid inspection and refilling
- 8 Spare tire removal/installation, mounting inspection
- (9) Sediment drainage and priming pump pressure application

6. After sales support

In order for customers to use accessories safely and securely, an after sales network should be created it order to provide necessary after-sales servicing for accessories (periodic inspections, repairs, etc.).

7. Rust prevention

Iron is produced by removing oxides from clumps of rust (which is an oxide of iron). Iron corrodes because the material is always attempting to return to this initial state.

In the case of automobile parts corrosion, the main types of corrosion are (1) moisture corrosion, (2) dry corrosion, and (3) galvanic corrosion.

Iron is the typical material of choice for automobiles, including custom modified vehicles, but increasingly aluminum and stainless metals (iron, nickel and chromium alloys) are being used to improve appearance and product appeal. However, there are cases where rust progresses comparatively quickly around areas where material combinations are in contact. This can be due to (3) below, galvanic corrosion.

- 1. Moisture corrosion
- · Corrosion caused by air and moisture occurs where water adheres to steel material.
- 2. Dry corrosion
- · Oxidation corrosion due to high temperatures progresses as temperatures rise and the oxide film thickens.
- 3. Galvanic corrosion
- If different kinds of metals are in contact and exposed to a corrosive environment in which an electrolytic solution (such as a saline solution) is present, corrosion progresses more quickly than locations where there is no contact.
- Different metals have different ionization tendencies (ease with which electrons are released). This difference
 in electrical potential between different metals produces a flow between the metals, causing the release of
 electrons. The bigger the difference in ionization tendency the bigger the electrical potential difference, and
 corrosion can progress much more quickly when compared to non-contacting metals.

Large ionization tendency ... Electrons released easily, rust occurs more readily Small ionization tendency ... Electrons not released easily, rusts occurs less readily

• However, we should note that the progress of corrosion is not determined solely by the difference of electrical potential between different materials.

Elements and standard characteristics

Symbol	Name	lonization tendency	Corrosion	Reaction to water	Reacts to air
К	Potassium			_	
Ca	Calcium		Corrodos ossily	Reacts at normal temperatures	
Na	Sodium		due to ionization		Oxidizes easily
Mg	Magnesium		*		
AI	Aluminum	Large	I		
Zn	Zinc	\uparrow		Reactions to	
Fe	Iron		Iron	steam, high- temperature	
Ni	Nickel	lonization tendency		water	Ovidizes cloudy
Sn	Tin	londonoy			Oxidizes slowly
Pb	Lead	\downarrow	\downarrow		
Н	Hydrogen	Small	Deee wet eewede	Hydrogen	
Cu	Copper		easily due to		
Hg	Mercury		ionization	Doop not roadt	
Ag	Silver			Dues not react	Does not oxidize easily
Pt	Platinum				cabily

Examples of galvanic corrosion and solutions Select materials to minimize ionization tendency differences between metals

Parts	Symptom	Solution
Aluminum panel and Dacrotized bolts	Aluminum panel rusting	Change Dacrotized bolts to zinc-plated bolts
Stainless steel panel and Dacrotized bolts	Dacrotized bolt rusting	Change Dacrotized bolt to stainless steel bolt
Stainless steel panel and zinc-plated plate	Zinc-plated plate rusting	Change zinc-plated plate to stainless steel plate
Stainless steel part and aluminum part	Aluminum part rusting	Change aluminum part to stainless steel

[3] DAMAGE WARNINGS ON MECHANISMS AND SYSTEMS IN BODY-BUILDING OR MAKING ALTERATIONS

1. Clearance between original vehicle parts and mounting equipment

The clearance between chassis parts and mounting equipment is very important from a safety point of view. Confirm that there is no problem according to the following check points.

Parts		Check Point	Estimated Clearance
Engine	Installed Part of the Engine Unit Installed Part of the Engine Compartment	 Confirm that an adequate clearance is secured for engine parts from standstill to maximum engine load because there is relative motion of the engine unit and the vehicle body. As a general rule, do not install parts on the engine side. When installed on the engine unit, confirm that there is no effect on the engine unit. 	- (Relative motion exists between engine and surrounding parts)
	Clutch Transmission	Since it is necessary to move the transmission assembly backward for the purpose of pulling out the clutch spline shaft when removing and installing clutch and transmission assembly, do not arrange mounting equipment in this area.	Rear Area of Transmission 120 mm or more
	Propeller Shaft	-	25 mm or more (all around)
Chassis	Brake	 Since all brake-related parts are very important from a safety point of view, the following precautions must be confirmed when mounting. Take such a construction as make pipe joints retightening as well as check, service and replacement of pipes possible. Pay attention to the location of air breather in brake piping and take such a construction as make smooth air breathing possible. Apply anti-corrosion and anti-chemical treatment to the pipe of lavatory service truck, chemical truck and others to prevent occurrence of problem and adopt a protector, etc., if necessary. Give consideration to vehicle in motion when connecting the brake hoses to the front and rear wheels. Secure an adequate clearance between brake pipes and mounting equipment. 	Brake Hose 50 mm or more

	Parts			Check Point	Estimated Clearance
	Exhaust Pipe and Muffler	Since the and muffl view, sec of exhaus confirm th factors by See the e	ermal influ ler are im cure adeq st system hat there y measuri estimated	ence and contact of exhaust pipe portant items from a safety point of uate clearance between such parts and mounting equipment and is no trouble relating to safety ing temperature, if necessary. clearance below.	-
		Req Clear (m EX Pine	uired rance m) Muffler	Parts Application	
		-	50	Rear Bumper Cover	
Chassis		150	200	 Mud Guard (rear) Leaf Spring Heater Hose 	
		200	250	 Mud Guard (front) Vacuum Pump Oil Hose Parking Brake Outer Cable Brake Pipe Fuel Tank Tire 	
	250	300	 Brake Vacuum Hose Wire Harness Vacuum Sensing Hose 		
	Fuel	As all fue safety, pr hoses an	el related ovide suf id pipes.	parts are important in terms of ficient spaces for the fuel tank,	-

2. Engine and engine compartment

Engine & Component must not be modified

3. Frames

- The frame must not be modified.
- Do not weld to the frame. Doing so could significantly reduce the strength of the frame.
- When doing conversion, use standard deck mounts of frame. (see [4]-2 Frame drawing)

[1] Drilling hole in Frame

- Some of the holes in the frame are meant for use only in production, and may not be suited for connecting heavy objects or other additional parts. Therefore, refer to the following notes if opening a new hole in order to secure an additional part.
 - (1) Area A includes parts related to driving safety, such as the drive line and fuel tank. Do not add any additional holes here.
 - (2) When opening a hole in area B due to the addition of the rear body, do not open the hole in weight bearing sections such as springs, dampers or bound stoppers.
 - (3) Refer to the following precautions when adding holes to other areas.
 - ① Refer to the following diagram for hole positions.
 - 2 Do not enlarge existing holes (E in diagram).
 - ③ Do not open a hole above another hole (F in diagram).
 - ④ Use a sharp drill to open holes. (Do not open holes using gas.)
 - (5) After opening a hole, completely remove any burrs and ensure that there is no cutting dust left in the frame.
 - 6 Apply rustproofing to any opened holes.(Refer to [2]-7 Rust prevention for information on rustproofing.)
 - (4) If you are concerned that adding a part will affect the strength of the frame, add reinforcement material in the appropriate location.

Hole Addition for Frame



Frame Drilling and Welding



Item	Description
*a	Inside
*b	Тор
А	21 mm
В	14 mm
С	14 mm
D	14 mm
E	25 mm
F	Do Not enlarge chassis rail holes, or drill within the surrounding area.
G	Do not drill any more than 2 vertical holes in the chassis rail.

4. Suspension

[1] Front suspension

Don't alter the component parts of the front suspension in any event. Also, don't change the specifications as it would adversely affect the vehicle performance.

[2] Rear suspension

- ① Don't alter the component parts of the rear suspension in any event. Also, don't change the specifications as it would adversely affect the performance and propeller shaft function.
- ② In building or making alterations to the vehicle, take adequate care not to damage the leaf spring. Should the leaf spring be damaged, change the whole assembly. (Don't change individual spring plate units, and don't reuse spring plates.)
- (3) The rear upper shock absorber bracket has a shape that protrudes above the top of the frame. Leave a clearance between the rear upper shock absorber bracket and the alternation.
 - Depending on the alteration, the frame height may need to be raised.
 - The height of the box to be installed may be affected.

Required clearance	15 mm
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[3] Rear suspension stroke



2WD			
Destination	Model	Tire Size	S: Rear Suspension Stroke (mm)
Australia	TGN121R-BTMXKQ3	215/65R16C ST GEN BLACK	
	TGN121R-BTTXKQ3	215/65R16C ST GEN BLACK	
	GUN122R-BTMXYQ3	215/65R16C ST GEN BLACK	
	GUN123R-BTMSYQ3	215/65R16C ST GEN BLACK 215/65R16C AL*	125.5
	TGN121R-BTMLKQ3	215/65R16C ST GEN BLACK	
	TGN121R-BTTLKQ3	215/65R16C ST GEN BLACK	
G.C.C.	KUN122L-BTMSYV3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	
	KUN122L-BTMLYV3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	125.5
	TGN121L-BTMLKV3	215/65R16C ST GEN BLACK	
	GUN122L-BTMLXV3	215/65R16C ST GEN BLACK	
	GUN122L-BTMSXV3	215/65R16C ST GEN BLACK	
Pakistan	KUN122R-BPMLYP3	205/70R15C ST GEN SILVER	
	GUN122R-BPMLYP3	205/70R15C ST GEN SILVER	125.5
	GUN122R-BPMLXP3	205/70R15C ST GEN SILVER	
Philippines	GUN122L-BTMXYM3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	125.5
	GUN122L-BTMLXM3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	120.0

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Thailand	GUN120R-BTTXHT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	
	GUN122R-BTMXYT3	205/70R15C ST GEN SILVER	
	GUN122R-BTFXYT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	125.5
	GUN122R-BTFLXT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	
	GUN120R-BTTLXT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	
General (Mexico)	TGN121L-BTMXK3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	125.5
	TGN121L-BTMLK3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	120.0
S. Africa	TGN120R-BNMXKN3	205/70R15C ST GEN SILVER	
	GUN122R-BNMXYN3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	
	TGN120R-BNMLKN3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	125.5
	GUN122R-BNMLXN3	215/65R16C ST GEN BLACK 205/70R15C ST GEN SILVER*	

*: Optional Tire S: Rear Suspension Stroke (Unloaded condition - full bound condition)



4WD & Pre-Runner				
Destination	Model	Tire Size	S: Rear Suspension Stroke (mm)	
Australia	GUN125R-BTFXHQ3	225/70R17C AT ST GEN SLVR		
	GUN125R-BTTXHQ3	225/70R17C AT ST GEN SLVR		
	GUN125R-CTFXHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		
	GUN125R-CTTXHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		
	GUN126R-BTFSHQ3	225/70R17C AT ST GEN SLVR		
	GUN126R-CTFSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		
	GUN126R-CTTSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		
	GUN126R-DTFSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		
	GUN126R-BTTSHQ3	225/70R17C AT ST GEN SLVR		
	GUN126R-DTTSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*	125	
	GUN125R-DTTXHQ3	265/65R17 AT AL-P 265/65R17 AT ST GEN BLACK*		
	GUN125R-BTFLXQ3	225/70R17C AT ST GEN SLVR		
	GUN125R-CTTLXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		
	GUN125R-DTTLXQ3	265/65R17 AT AL-P 265/65R17 AT ST GEN BLACK*		
	GUN126R-BTFSXQ3	225/70R17C AT ST GEN SLVR		
	GUN126R-BTTSXQ3	225/70R17C AT ST GEN SLVR		
	GUN126R-CTFSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		
	GUN126R-CTTSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		

Australia			
Australia	GUN126R-DIFSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*	
	GUN126R-DTTHXQ3	265/65R17 AT AL-P 265/60R18 AL-P*	125
	GUN126R-DTTSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*	
	GUN135R-BTFXHQ3	225/70R17C AT ST GEN SLVR	
	GUN135R-BTFLXQ3	225/70R17C AT ST GEN SLVR	117.5
New Zealand	GUN136R-BTFSHQ3	225/70R17C AT ST GEN SLVR	
	GUN136R-BTFSXQ3	225/70R17C AT ST GEN SLVR	117.5
Central & South	GUN135L-BGFXHG3	225/70R17C AT ST GEN SLVR	447 5
America	GUN135L-BGFLXG3	225/70R17C AT ST GEN SLVR	117.5
	GUN125L-BGFXHG3	225/70R17C AT ST GEN SLVR	
	GUN125L-BGFLXG3	225/70R17C AT ST GEN SLVR	405
	GUN126L-BGFXJG3	225/70R17C AT ST GEN SLVR	125
	GUN126L-BGFLXG3	225/70R17C AT ST GEN SLVR	
Europe	GUN135L-BNFXHW3	225/70R17C AT ST GEN SLVR	
	GUN135L-BNFXXW3	225/70R17C AT ST GEN SLVR	
	GUN135L-BNFLXW3	225/70R17C AT ST GEN SLVR	117 E
	GUN135L-CNFXHW3	265/65R17 AT ST GEN BLACK	6.111
	GUN135L-CNFXXW3	265/65R17 AT ST GEN BLACK	
	GUN135L-CNFLXW3	265/65R17 AT ST GEN BLACK	
	GUN125R-BNFSXW3	225/70R17C AT ST GEN SLVR 265/65R17 AT ST GEN BLACK	
	GUN125R-CNFSXW3	265/65R17 AT ST GEN BLACK	
	GUN125R-DNFSXW3	265/65R17 AT ST GEN BLACK	
	GUN125L-BNFSHW3	225/70R17C AT ST GEN SLVR	
	GUN125L-BNFSXW3	225/70R17C AT ST GEN SLVR	125
	GUN125L-CNFSHW3	265/65R17 AT ST GEN BLACK	
	GUN125L-CNFSXW3	265/65R17 AT ST GEN BLACK	
	GUN125L-DNFSHW3	265/65R17 AT ST GEN BLACK	
	GUN125L-DNFSXW3	265/65R17 AT ST GEN BLACK	
G.C.C.	TGN126L-BTMLKV3	225/70R17C AT ST GEN SLVR	125
Kenya/S. Africa	GUN125R-BNFSHN3	225/70R17C AT ST GEN SLVR 265/65R17 AT AL-P*	125
Kenya	GUN125R-BNFXHN3	205R16C ST GEN SLVR	
	GUN125R-BNFLXN3	225/70R17C AT ST GEN SLVR 205R16C ST GEN SILVER*	125
S. Africa	GUN125R-BNFSXN3	225/70R17C AT ST GEN SLVR 265/65R17 AT AL-P*	125
W. Africa	LAN125L-BNMXEN3	205R16C ST GEN SLVR	405
	LAN125L-BNMLEN3	205R16C ST GEN SILVER	125
Angola	GUN125L-BNFXHN3	205R16C ST GEN SLVR 225/70R17C AT ST GEN SLVR*	
	GUN125L-BNFLXN3	225/70R17C AT ST GEN SLVR 205R16C ST GEN SILVER*	125

*: Optional Tire S: Rear Suspension Stroke (Unloaded condition - full bound condition)

[4] Tire

A CAUTION:

Don't use any tire or disc wheel other than specified for the particular vehicle.

[5] Tire Inflation Pressure

*: Optional Tire			Tire Inflation Pressure (kPa)			
2WD			Front Rear			ar
Destination	Model	Tire Size	Unloaded	Loaded	Unloaded	Loaded
Australia	TGN121R-BTMXKQ3	215/65R16C ST GEN BLACK			290	370
	TGN121R-BTTXKQ3	215/65R16C ST GEN BLACK				
	GUN122R-BTMXYQ3	215/65R16C ST GEN BLACK		240		
	GUN123R-BTMSYQ3	215/65R16C ST GEN BLACK 215/65R16C AL*	240			
	TGN121R-BTMLKQ3	215/65R16C ST GEN BLACK				
	TGN121R-BTTLKQ3	215/65R16C ST GEN BLACK				1
G.C.C.	KUN122L-BTMSYV3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	205	260	330	450
	KUN122L-BTMLYV3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	215*	240*	290*	370*
	TGN121L-BTMLKV3	215/65R16C ST GEN BLACK		240	290	
	GUN122L-BTMLXV3	215/65R16C ST GEN BLACK	240			370
	GUN122L-BTMSXV3	215/65R16C ST GEN BLACK				
Pakistan	KUN122R-BPMLYP3	205/70R15C ST GEN SILVER		260	330	450
	GUN122R-BPMLYP3	205/70R15C ST GEN SILVER	260			
	GUN122R-BPMLXP3	205/70R15C ST GEN SILVER				
Thailand	GUN120R-BTTXHT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*				
	GUN122R-BTMXYT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*				
	GUN122R-BTFXYT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	260 240*	260 240*	330 290*	450 370*
	GUN122R-BTFLXT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*				
	GUN120R-BTTLXT3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*				
Philippines	GUN122L-BTMXYM3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	260	260 240*	330 290*	450 370*
	GUN122L-BTMLXM3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	240*			
General (Mexico)	TGN121L-BTMXK3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	260 240*	260 240*	330 290*	450
	TGN121L-BTMLK3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*				370*
S. Africa	TGN120R-BNMXKN3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*				
	GUN122R-BNMXYN3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*	260 240*) 260 * 240*	330 290*	450 370*
	TGN120R-BNMLKN3	205/70R15C ST GEN SILVER 215/65R16C ST GEN BLACK*				
	GUN122R-BNMLXN3	215/65R16C ST GEN BLACK 205/70R15C ST GEN SILVER*	240 260*	240 260*	290 330*	370 450*

*: Optional Tire			Tire Inflation Pressure (kPa)			
4WD & Pre-Runner		Front		Re	Rear	
Destination	Model	Tire Size	Unloaded	Loaded	Unloaded	Loaded
Australia	GUN125R-BTFXHQ3	225/70R17C AT ST GEN SLVR				
	GUN125R-BTTXHQ3	225/70R17C AT ST GEN SLVR				
	GUN126R-BTFSHQ3	225/70R17C AT ST GEN SLVR	240	240	240	300
	GUN126R-BTTSHQ3	225/70R17C AT ST GEN SLVR				
	GUN135R-BTFXHQ3	225/70R17C AT ST GEN SLVR				
	GUN125R-CTTXHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN125R-CTFXHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN125R-DTTXHQ3	265/65R17 AT AL-P 265/65R17 AT ST GEN BLACK*				
	GUN126R-CTTSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*	200	230	200	250
	GUN126R-CTFSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN126R-DTFSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN126R-DTTSHQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN125R-BTFLXQ3	225/70R17C AT ST GEN SLVR				
	GUN126R-BTFSXQ3	225/70R17C AT ST GEN SLVR	240	0.40	240	200
	GUN126R-BTTSXQ3	225/70R17C AT ST GEN SLVR	240	240	240	300
	GUN135R-BTFLXQ3	225/70R17C AT ST GEN SLVR				
	GUN125R-CTTLXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN126R-CTFSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*	200		200	
	GUN126R-CTTSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*		230		
	GUN125R-DTTLXQ3	265/65R17 AT AL-P 265/65R17 AT ST GEN BLACK*				250
	GUN126R-DTFSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN126R-DTTSXQ3	265/65R17 AT ST GEN BLACK 265/65R17 AT AL-P*				
	GUN126R-DTTHXQ3	265/65R17 AT AL-P 265/60R18 AL-P*				
New Zealand	GUN136R-BTFSHQ3	225/70R17C AT ST GEN SLVR	240	240	240	300
	GUN136R-BTFSXQ3	225/70R17C AT ST GEN SLVR	240	240	2-+0	500
Central & South	GUN135L-BGFXHG3	225/70R17C AT ST GEN SLVR				
America	GUN135L-BGFLXG3	225/70R17C AT ST GEN SLVR		240 240		
	GUN125L-BGFXHG3	225/70R17C AT ST GEN SLVR	240		240	300
	GUN125L-BGFLXG3	225/70R17C AT ST GEN SLVR			240	000
	GUN126L-BGFXJG3	225/70R17C AT ST GEN SLVR				
	GUN126L-BGFLXG3	225/70R17C AT ST GEN SLVR				

Europe	GUN135L-BNFXHW3	225/70R17C AT ST GEN SLVR			240	300
	GUN135L-BNFXXW3	225/70R17C AT ST GEN SLVR	240	240		
	GUN125L-BNFSHW3	225/70R17C AT ST GEN SLVR	240			
	GUN125L-BNFSXW3	225/70R17C AT ST GEN SLVR				
	GUN125R-BNFSXW3	225/70R17C AT ST GEN SLVR 265/65R17 AT ST GEN BLACK*	240 230*	240 230*	240 230*	300 250*
	GUN135L-CNFXXW3	265/65R17 AT ST GEN BLACK				
	GUN125R-CNFSXW3	265/65R17 AT ST GEN BLACK			230	250
	GUN125R-DNFSXW3	265/65R17 AT ST GEN BLACK				
	GUN125L-CNFSXW3	265/65R17 AT ST GEN BLACK	220	230		
	GUN125L-DNFSXW3	265/65R17 AT ST GEN BLACK	230			
	GUN135L-CNFXHW3	265/65R17 AT ST GEN BLACK				
	GUN125L-CNFSHW3	265/65R17 AT ST GEN BLACK				
	GUN125L-DNFSHW3	265/65R17 AT ST GEN BLACK				
	GUN135L-BNFLXW3	225/70R17C AT ST GEN SLVR	240	240	240	300
	GUN135L-CNFLXW3	265/65R17 AT ST GEN BLACK	230	230	230	250
G.C.C.	TGN126L-BTMLKV3	225/70R17C AT ST GEN SLVR	240	240	240	300
Kenya/S. Africa	GUN125R-BNFSHN3	225/70R17C AT ST GEN SLVR 265/65R17 AT AL-P*	240 200*	240 230*	240 200*	300 250*
Kenya	GUN125R-BNFXHN3	205R16C ST GEN SLVR	270	270	270	340
	GUN125R-BNFLXN3	225/70R17C AT ST GEN SLVR 205R16C ST GEN SILVER*	240 270*	240 270*	240 270*	300 340*
S. Africa	GUN125R-BNFSXN3	225/70R17C AT ST GEN SLVR 265/65R17 AT AL-P*	240 200*	240 230*	240 200*	300 250*
W. Africa	LAN125L-BNMXEN3	205R16C ST GEN SLVR	070	270	270	240
	LAN125L-BNMLEN3	205R16C ST GEN SILVER	270			340
Angola	GUN125L-BNFXHN3	205R16C ST GEN SLVR 225/70R17C AT ST GEN SLVR*	270 240*	270 240*	270 240*	340 300*
	GUN125L-BNFLXN3	225/70R17C AT ST GEN SLVR 205R16C ST GEN SILVER*	240 270*	240 270*	240 270*	300 340*

[6] Data for calculating the ground clearance of frame reference line

The ground clearance of the frame reference line should be calculated using the following data and attached [4]-2 Frame drawing.



(1) Static Load Radius of Tire (mm) [TF, TR]

Model	Tire Size	Static load radius (mm) (ETRTO) Standard (JATMA)	Model	Tire Size	Static load radius (mm) (ETRTO) Standard (JATMA)
KUN122L-BTMSYV3			GUN123R-BTMSYQ3		
KUN122L-BTMLYV3			TGN121R-BTMXKQ3		
TGN121L-BTMXK3	205/70P15C	Front: 300 4	TGN121R-BTTXKQ3		
GUN122L-BTMXYM3	205/70K15C 106/104S	Rear: 312.5	GUN122R-BTMXYQ3		
GUN122R-BTMXYT3	100/1040	Real: 012.0	GUN123R-BTMSYQ3		
GUN122R-BTFXYT3			KUN122L-BTMSYV3	215/65R16C	Front: 319.9
GUN120R-BTTXHT3			KUN122L-BTMLYV3	106/104S	Rear: 322.3
KUN122R-BPMLYP3			GUN120R-BTTXHT3		
TGN120R-BNMXKN3			GUN122R-BTMXYT3		
GUN122R-BNMXYN3			GUN122R-BTFXYT3		
GUN122R-BPMLXP3			GUN122L-BTMXYM3		
GUN122L-BTMLXM3	205/70R15C	ETRTO	TGN121L-BTMXK3		
GUN122R-BTFLXT3	106/104S	305.6	TGN121L-BTMLKV3		
GUN120R-BTTLXT3			TGN120R-BNMXKN3		
TGN121L-BTMLK3			GUN122R-BNMXYN3		
TGN120R-BNMLKN3			TGN121R-BTMLKQ3		
GUN122R-BNMLXN3			TGN121R-BTTLKQ3		
GUN125R-BNFXHN3			GUN122L-BTMLXV3	015/65D160	ETRTO
GUN125L-BNFXHN3			GUN122L-BTMSXV3	215/05R10C	215 0
LAN125L-BNMXEN3	205R16C	ETRTO	GUN122L-BTMLXM3	100/1043	515.0
GUN125R-BNFLXN3	110/108S	335.0	GUN122R-BTFLXT3		
LAN125L-BNMLEN3			GUN120R-BTTLXT3		
GUN125L-BNFLXN3			TGN121L-BTMLK3]	
			TGN120R-BNMLKN3]	
			GUN122R-BNMLXN3		

[3]-4. Suspension

GUN125R-BTFXHQ3			GUN125R-CTFXHQ3		
GUN125R-BTTXHQ3			GUN126R-CTTSHQ3		
GUN126R-BTFSHQ3			GUN126R-CTFSHQ3		
GUN126R-BTTSHQ3			GUN126R-DTFSHQ3	005/05047	358.5,
GUN135R-BTFXHQ3	225/70R17C	2 050	GUN126R-DTTSHQ3	265/65R17	360.9
GUN136R-BTFSHQ3	108/106S	350	GUN135L-CNFXHW3	1125	(for EUROPE)
GUN135L-BGFXHG3			GUN125L-CNFSHW3		
GUN125L-BGFXHG3			GUN125L-DNFSHW3		
GUN135L-BNFXHW3			GUN125R-DTTXHQ3		
GUN125L-BNFSHW3			GUN135L-CNFXXW3		
GUN126L-BGFXJG3			GUN125R-CNFSXW3		
GUN135L-BNFXXW3			GUN125R-DNFSXW3		
GUN125L-BNFSXW3			GUN125L-CNFSXW3		
GUN125R-BNFSXW3			GUN125L-DNFSXW3		
TGN126L-BTMLKV3			GUN125R-BNFSXW3		
GUN125R-BNFSHN3			GUN125R-BNFSHN3		
GUN125L-BNFXHN3			GUN125R-CTTLXQ3		
GUN125R-BTFLXQ3			GUN125R-DTTLXQ3		
GUN126R-BTFSXQ3	225/70R17C	ETRTO	GUN126R-CTFSXQ3		
GUN126R-BTTSXQ3	108/106S	342.9	GUN126R-CTTSXQ3		107140
GUN135R-BTFLXQ3			GUN126R-DTFSXQ3	203/03R17 112S	3/17
GUN136R-BTFSXQ3			GUN126R-DTTSXQ3	1120	547
GUN126L-BGFLXG3			GUN126R-DTTHXQ3		
GUN125L-BGFLXG3			GUN125R-CTTLXQ3		
GUN135L-BGFLXG3			GUN125R-DTTLXQ3		
GUN135L-BNFLXW3			GUN126R-CTFSXQ3		
GUN125R-BNFLXN3			GUN126R-CTTSXQ3		
GUN125L-BNFLXN3			GUN126R-DTFSXQ3		
GUN125R-DTTXHQ3			GUN126R-DTTSXQ3		
GUN125R-CTTXHQ3			GUN126R-DTTHXQ3		
GUN125R-CTFXHQ3		258 5	GUN135L-CNFLXW3		
GUN126R-CTTSHQ3	265/65R17	300.5, 360 Q	GUN125R-BNFSXN3		
GUN126R-CTFSHQ3	112S	(for FUROPE)	GUN126R-DTTHXQ3	265/60R18	JATMA
GUN126R-DTFSHQ3				110H	350
GUN126R-DTTSHQ3					
GUN125R-CTTXHQ3					

(2) Distance from wheel center to frame reference line when apply a STD LOAD [HF, HR]

For each STD LOAD, see (5) Spring characteristics curve diagram.

		(mm)
	4x2	4x4
Front (HF)	70.5	145.8
Rear (HR)	70.5	149.5

(3) Unsprung Mass (kg)

See attached [5] MAJOR TECHNICAL SPECIFICATIONS.

(4) Arm Ratio

	4x2	4x4
Front	0.575	0.517
Rear	1	1
(5) Spring characteristics curve diagram







0

150

100

50

DISTANCE FROM WHEEL CENTER TO FRAME REFERENCE LINE HF[mm]

Ó

-50

-100

4x2 B-cab (Standard) **Rear Suspension** Model code: **TGN120R-BNMLKN3 TGN120R-BNMXKN3** TGN121L-BTMLKV3 TGN121L-BTMLK3 TGN121L-BTMXK3 TGN121R-BTMLKQ3 TGN121R-BTMXKQ3 TGN121R-BTTLKQ3 TGN121R-BTTXKQ3 GUN120R-BTTLXT3 GUN120R-BTTXHT3 GUN122L-BTMLXM3 GUN122L-BTMLXV3 GUN122L-BTMSXV3 GUN122L-BTMXYM3 GUN122R-BTMXYT3 GUN122R-BNMLXN3 GUN122R-BNMXYN3 GUN122R-BPMLXP3 GUN122R-BPMLYP3 GUN122R-BTFLXT3 GUN122R-BTFXYT3 GUN122R-BTMXYQ3 GUN123R-BTMSYQ3 KUN122L-BTMLYV3 KUN122L-BTMSYV3 KUN122R-BPMLYP3



	LOAD(N)	CAMBER(mm)
NO LOAD	0	154.3
CURB LOAD	2250	98
STD LOAD	7600	28
MAX LOAD	14610	-33



9023.0N FB LOAD

K=35.4N/mm

100

5837.0N STD LOAD

200

145.8mm

150

DISTANCE FROM WHEEL CENTER TO FRAME REFERENCE LINE HF[mm]

55.8

50

0

10000

5000

0

2367.8N FRB LOAD

243.8mm

250

	LOAD(N)	HF(mm)
FB LOAD	9023.0	55.8
STD LOAD	5837.0	145.8
FRB LOAD	2367.8	243.8

4x4 B-cab & C-cab Front Suspension Model code: GUN125L-BGFLXG3 GUN125L-BGFXHG3 GUN125L-BNFXHN3 GUN126L-BGFLXG3 GUN126L-BGFXJG3 GUN135R-BTFXHQ3 GUN135L-BNFLXW3 GUN135L-BNFXHW3 GUN135L-BNFXXW3 GUN135L-CNFLXW3 GUN135L-CNFXHW3 GUN135L-CNFXXW3 GUN136R-BTFSHQ3 GUN136R-BTFSXQ3 LAN125L-BNMLEN3 LAN125L-BNMXEN3



	LOAD(N)	HF(mm)
FB LOAD	9317.3	55.8
STD LOAD	6131.3	145.8
FRB LOAD	2662.1	243.8

4x4 B-cab Front Suspension

Model code:

GUN125R-BNFLXN3 GUN125R-BNFSXN3 GUN125R-BNFSXW3 GUN125R-BNFSHN3 GUN125R-BNFXHN3 GUN135R-BTFLXQ3

LOAD(N)	HF(mm)
9854.6	55.8
6425.6	145.8
2691.8	243.8
	LOAD(N) 9854.6 6425.6 2691.8



4x4 B-cab & C-cab & D-cab Front Suspension

Model code: GUN125L-BNFLXN3 GUN125L-BNFSHW3 GUN125L-CNFSHW3 GUN125L-DNFSHW3 GUN125L-BNFSXW3 GUN125R-CNFSXW3 GUN125R-DNFSXW3 GUN125R-BTFLXQ3 GUN125R-BTFXHQ3 GUN125R-BTTXHQ3 GUN125R-CTTLXQ3 GUN125R-CTFXHQ3 GUN125R-CTTXHQ3 GUN125R-DTTLXQ3 GUN125R-DTTXHQ3 GUN126R-BTFSHQ3 GUN126R-BTFSXQ3 GUN126R-BTTSHQ3 GUN126R-BTTSXQ3 GUN126R-CTFSHQ3 GUN126R-CTFSXQ3 GUN126R-CTTSHQ3 GUN126R-CTTSXQ3 GUN126R-DTFSHQ3 GUN126R-DTFSXQ3 GUN126R-DTTSHQ3 GUN126R-DTTSXQ3 GUN126R-DTTHXQ3

	LOAD(N)	HF(mm)
FB LOAD	10148.9	55.8
STD LOAD	6719.9	145.8
FRB LOAD	2986.1	243.8





	LOAD(N)	CAMBER(mm)
NO LOAD	0	98.5
CURB LOAD	2700	25.5
STD LOAD	6870	-35.5
MAX LOAD	14057.5	-98

Pre-Runner B-cab (Standard) Rear Suspension

Model code: GUN135L-BGFLXG3 GUN135L-BGFXHG3 GUN135L-BNFLXW3 GUN135L-BNFXHW3 GUN135L-BNFXXW3 GUN135R-BTFLXQ3 GUN135R-BTFXHQ3 GUN136R-BTFSHQ3 GUN136R-BTFSXQ3

	LOAD(N)	CAMBER(mm)
NO LOAD	0	98.5
CURB LOAD	2700	25.5
STD LOAD	6870	-35.5
MAX LOAD	13195	-90.5







*: Option





5. Body

- In order to prevent intrusion of exhaust gas into the cab, surely seal all the holes and apertures in the cab including the floor.
- Don't remove the heat insulator from the base vehicle.

[1] Building and alterations to rear body and deck

(1) Prevention of cargo drop

Each customer (driver) is responsible for preventing his/her cargo from falling. The body-builder therefore is required to take a measure for cargo-fall prevention most suitable for the normal cargo of the particular customer.

① Since the cargo can be bound only laterally, the front portion of the deck is effectively covered with a wire mesh or iron sheets.



② In the case of vehicles for carrying long or heavy objects, take adequate care in reinforcing the guard frame and the connection between the guard frame and the floor.



[2] Securing rear wheel house space

Make sure to secure a required space for the wheel house.

Vertical	Bound limit of tire +25mm	(a)
Horizontal	Outer surface of tire +30mm	(b)

In attaching the tire chain, secure a larger clearance.



[3] Protection against thermal effect of exhaust system

With a sufficient clearance secured between the exhaust-related parts and the built or altered parts, measure the temperature as required to see that there is no safety problem.

Thermal effect of exhaust system

Required clearance		Polated parts	
Exhaust pipe	Muffler	Related parts	
50mm	150mm	Mud guard (rear), heater hose, etc.	
100mm	200mm	Mud guard (front) etc.	

• In cases where the above clearance cannot be satisfied, protection against the heat such as a heat insulating plate is required.

[4] Attachment of rear underrun protective device

Vehicle for the European market must install rear underrun protection for EEC type-approval (70/221/EEC)

The lower edge of the device must be less than 550mm (H) above the ground.

The horizontal distance between the rear of the device and the rear extremity of the vehicle must not exceed 450mm (L).

The width of the device must not exceed 100mm (W) from the outside of tire.



[5] Roof racks

(1) Roof rack load capacity

When installing a roof rack, it is necessary to consider the following.

• The maximum loading capacity is 60 kg.

The load capacity varies depending on driving conditions, such as the load, road surface and vehicle speed. Refer to the instruction manual on handling roof racks for details.

• Make sure that the maximum height of the center of gravity of the load is 250 mm or less, and also check the impact on the maximum permissible slant angle. (Refer to [2]-3. [5] Maximum permissible slant angle)



6. Brake

The brake system and piping must not be modified.

[1] Readjustment of LSPV

A load sensing proportioning valve (LSPV) is mounted on the base vehicle for stabilizing the brake performance in accordance with the change of load.

- Adjust LSPV after building or alteration (on completion of the vehicle).
- · Readjustment of a LSPV demounted is always necessary.

(1) LSPV readjustment procedure

① SST, tools and measuring instruments



- 2 Preparation for adjustment
- (a) Measure the rear axle load using the axle load gage.

Standard rear axle load for adjustment

Chassis	Body	Models	Rear axle load [kg]
2WD	Single cab	KUN122R-BPMLYP3	750

<Procedure>

With one person in driver's seat, place a weight on the vehicle to adjust the rear axle load.

- When adjusting the rear axle load, set the weight to a value higher than the expected load by about 60 kgf. Reduce the weight slowly for final adjustment.
- · See to it that there is no lateral imbalance.
- (b) Mounting the LSPV gage set, bleed air from the gage.



- ③ Measurement of hydraulic pressure
- (a) Depress the brake pedal until the oil pressure in the front wheel cylinder reaches 10 MPa,
- Don't depress the brake pedal a number of times.
- When the oil pressure in the front wheel cylinder exceeds 10 MPa, release the pedal completely and then depress it again.
- (b) After holding the oil pressure in the front wheel cylinder at (10 MPa) for two seconds, measure the oil pressure in the rear wheel cylinder.

Standard rear liquid pressure



④ How to determine standard oil pressure in rear wheel cylinder

Only in the case where the rear axle load cannot be adjusted to a value shown as the standard axle load, adjust the oil pressure in the rear wheel cylinder using the diagram shown next page.

(a) Plotting the rear axle load along the abscissa of a static oil pressure curve bend point diagram, determine a bend point of oil pressure.

Ex: For the rear axle load of 1250 kg, the oil pressure bend point is 9.63 MPa.

Static oil pressure curve bend point diagram



(b) After the value for the bend point of oil pressure is determined, plot the performance line (a line parallel to the valve unit performance line extending from the bend point of oil pressure), and read the rear wheel cylinder oil pressure at the time when the front wheel cylinder pressure is at 10 MPa.

Ex: In the case where the bend point of oil pressure stands at 3.68 MPa, the standard value for rear wheel cylinder oil pressure becomes 5.26 MPa, at the time when the front wheel cylinder pressure is at 10 MPa.



LSPV performance curve diagram

How to calculate standard oil pressure

When the break point (x) is known, the oil pressure in the rear wheel cylinder against that in the front wheel oil cylinder is determined by the following equation:

Ex: Rear wheel cylinder oil pressure for front axle load of 10 MPa

Inclination x (X - Ps) + Ps = $0.25 \times (10 - 3.68) + 3.68 = 5.26$

(5) Oil pressure adjustment

If the oil pressure measurement fails to satisfy the standard value, adjust the oil pressure as follows.

(a) Adjust the length of shackle No.2 (Dimension A).

When the oil pressure is low, increase the Dimension A. (Turn the shackle counterclockwise.)

When the oil pressure is high, decrease the Dimension A.

(Turn the shackle clockwise.)



	Standard Dimension A	120 mm
200	Adjustment range	103 mm ~127 mm

Lock nut fastening torque T = 12.5 N·m.

Oil pressure change adjusted per "A" Length

Vehicle type	Change of fluid Pressure per "A" Length
2WD	0.14 MPa/mm

(b) Adjustment with LSPV body

When adjustment is impossible with the length of shackle No.2, move the LSPV body vertically to attain the standard oil pressure.

When oil pressure is low, lower the LSPV body.

When oil pressure is high, raise the LSPV body.



• Set nut fastening torque T = 12.5 N·m.

• After adjusting with LSPV body, readjust the length (Dimension A) of the shackle No.2.

(2) LSPV performance curve diagram

[2WD Single Cab] KUN122R-BPMLYP3





[2] Brake control systems

(1) Anti-lock Brake System (ABS)

Helps to prevent wheel lock when the brakes are applied suddenly, or if the brakes are applied while driving on a slippery road surface.

(2) Vehicle Stability Control (VSC)

Helps the driver to control skidding when swerving suddenly or turning on slippery road surfaces.

The following changes may affect the operation of the ABS or VSC systems.

- Changing a steering angle sensor
- · Changing an airbag ECU (yawrate sensor and deceleration sensor)
- · Changing a wheel speed sensor
- · Changing the steering system
- Changing the wheel base
- Loading the vehicle beyond G.V.W.
- Changing the installation rigidity of the airbag ECU (yawrate sensor and deceleration sensor) with body modifications
- Changing the installation position of the airbag ECU (yawrate sensor and deceleration sensor)
- Changing the suspension
- Changing the tires or wheels
- Changing the brake system
- · Changing the engine
- Changing the transmission

7. Drive units

[1] Transmission

- ① Sufficient clearance should be provided between transmission and an altered part because the two parts move relatively.
- ② It is necessary to shift transmission rearward to pull out the clutch spline shaft when removing and reinstalling clutch and transmission. Therefore, don't locate any attachment and equipment in the area within 120mm behind the transmission.
- ③ For the breather tube installed on transmission, strictly observe the following points.
- Never alter the position of the breather tube.
- Never collapse nor break the breather tube.
- Never plug the opening of the breather tube.

(4) Never alter the position of the Automatic transmission insulator.

[2] Propeller shaft

• Provide clearance of at least 25mm between propeller shaft and any altered parts taking account of the full bound movement of the propeller shaft.

8. Exhaust pipe

The thermal effect and interference of the exhaust-related parts including the exhaust pipe and the muffler poses a very serious safety problem. Strictly comply with the following instructions.

- Don't change the structure of exhaust system and the muffler capacity.
- Secure a sufficient clearance between the exhaust-related parts and the building or alteration (refer to respective instructions for each device). Measure the temperature as required and make sure that there is no safety problem. In cases where the above clearance cannot be satisfied, protection against the heat such as a heat insulating plate is required.
- When changing the position of the exhaust pipe outlet, see to it that the body or other parts are not exposed to the exhaust gas, and keep it a way from the passenger region (ventilators, windows, doors or vehicle body openings or their vicinity).

9. Battery

The battery is an item which, if handled inappropriately, may cause a malfunction of the electrical components of the vehicle or an engine trouble or a fire. Strictly observe the instructions on the battery and battery cable.

[1] Wiring precautions

- ① In order to prevent damage from water or other objects, protect the battery appropriately.
- ② The battery cable, whether in or out of position, should not be in contact with a sharp edge of other portions.
- ③ Clip the battery cable at intervals of less than 450 mm. (Always use a clip lined with rubber.)
 - · Be sure that the clip is not freely movable.
 - · Keep the clips away from other portions.



- ④ Don't bend the battery cable to a radius smaller than ten times the cable diameter.
- (5) If the terminal is moved under the mounting tension of the battery cable, the terminal would become loose or normal engine start would become impossible, often leading to a battery failure. Always securely fix the battery cable on the battery tray.
- 6 Set the route of the battery cable downward so that no leverage action is exerted to loosen the connector.



[2] Change of battery mounting position

- ① Install the battery at a position where the air flow is sufficient to release into the atmosphere the gas generated during the temperature increase or the charging operation.
- (2) Keep the battery away from a heat source by 200 mm minimum. When this distance is not sufficient, protect the battery from heat using a heat insulating plate or the like.
- ③ Determine the battery position using the existing battery cable.

[3] No overlaid connection of battery cables

Never connect battery cables by overlaying them one on another.



[4] Replacement battery cable

Replacing the battery cable poses an engine start problem and causes the loss of other key systems. Comply with the following instructions strictly.

① In order to secure the appropriate functions of the battery cable, use a cable with the following specifications.

Thickness (gage)	Length (mm)	Material
4	1600	Copper
2	2600	Copper
0	4200	Copper

② When a minus cable is installed on the frame as a result of battery relocation, connect a cable of substantially the same size as the plus cable between the frame and the engine to cope with a large electric load of the starting circuit.

[5] Serviceability

 During the service or check work, secure a sufficient space or insulation in order not to cause any accident such as short circuit.



2 Attach a terminal polarity marking, a caution label and a gravity meter (mark) at an easily visible position.

10. Fuel tank

[1] Addition and relocation of fuel tank

① Don't add or relocate a fuel tank.

[2] Mounting position of fuel tank

- ① Keep the fuel tank 100 mm minimum away from the exhaust pipe and 200 mm minimum away from the muffler.
 - When the specified clearance cannot be satisfied or if necessary for heat consideration, protect against the heat by providing a heat insulating plate or the like.
- ② Keep other parts with a sufficient clearance from the fuel tank, fuel pipe and fuel hose.
 - Confirming the motion of the other part in question, see to it that a sufficient clearance is secured even when the particular part is moved.

[3] Serviceability

Provide means for facilitating the supplying fuel to or draining water from the fuel tank.



[4] Mounting position of fuel inlet

After modification, angle of fuel inlet (*) to be maintained to ensure good flow of fuel when supplying fuel and prevent flow back.

Make sure the fuel hose is not kinked to ensure good flow of fuel.

* Minimum 32°



Don't add or relocate a fuel tank. To satisfy filling performance, position of filler pipe top is in shading area.



11. Spare tire carrier

In order to support the spare tire safely, take the following preventive measures when the spare tire carrier is added or modified.

[1] General preventive measures

- ① Construct the vehicle in such a way as to facilitate the mounting and demounting of the spare tire by a single person.
- ② Construct the vehicle with the spare tire not in contact with the parts other than the stopper when mounted.
- ③ Be sure that the chain or the like is not caught up when the tire is wound up.
- (4) Don't install the built or altered equipment within the operating range of the spare tire carrier handle.



- (5) Construct the spare tire carrier in such a way that even a punctured tire can be fixed securely.
- (6) The construction should be such that the tire is stored within the outermost side of the vehicle.
- ⑦ Construct the spare tire carrier in such a manner that the tire is fixed at a position 100 mm minimum away from the exhaust pipe and 200 mm minimum away from the muffler.
 - In cases where no sufficient clearance is available, take an appropriate measure to protect the spare tire carrier against the heat by providing a heat insulating plate or the like.
- (8) In case of relocation of spare tire, be sure that spare tire holder must has good enough strengthen.
- (9) Attach the caution plate for the spare tire at a position easily visible from the operating point.

[2] Preventive measure for addition or alteration to spare tire carrier of wind-up type

(1) Disc wheel support

The support should be so constructed as not to be deformed with a sufficient contact area with the disc wheel.



(2) How to support tires

 In order to ensure that the spare tire carrier produces a tightening reaction force even in case a punctured tire is stored, construct the spare tire carrier in such a manner that the tire rim can hold directly touch with the cross member flange.



(3) Height of guide

To facilitate the raising of plate platform, make the guide have a height exceeding 10 mm.



(4) Torque for tightening a tire

Tighten the tire with a standard tightening torque of 29.0 ~ 43.5 N·m.

(5) Tension load

At the stage of building the body, apply a tension load of 2940 N (2WD) / 4900 N (Pre-runner and 4WD) minimum to the chain.

(6) Caution plate

In order to make the operator observe the torque as specified, attach the caution plate showing the recommended tightening torque at the position that can be seen from the operating position.

[3] Mounting position



	*: Optiona	al Tire			*: Optiona	al Tire	
	Model	Size of Spare Tire	A		Model	Size of Spare Tire	Α
2WD	TGN121R-BTMXKQ3			4WD	GUN125R-CTTXHQ3		
	TGN121R-BTTXKQ3				GUN125R-CTFXHQ3		
	GUN122R-BTMXYQ3				GUN126R-CTFSHQ3		
	TGN121L-BTMLKV3		000		GUN126R-CTTSHQ3		
	TGN121R-BTMLKQ3	215/658160	686		GUN126R-DTFSHQ3		
	TGN121R-BTTLKQ3				GUN126R-DTTSHQ3		
	GUN122L-BTMLXV3				GUN125R-DTTXHQ3		
	GUN122L-BTMSXV3				GUN125R-CNESXW3		
		215/65P16C	686		GUN125R-DNESXW3	•	
	GUN122R-BNMLXN3	215/65R16C 205/70R15C*	660*		GUN125L-CNESHW3	265/65R17	776
			600			200/001(17	110
	GUN123R-BTMSYQ3		686				
		215/05K10C AL	680		GUN125L-DNFSHW3		
	KUN122R-BPMLYP3		669		GUN125L-DNFSXW3		
	GUN122R-BPMLYP3	205/70R15C			GUN125R-CTTLXQ3		
	GUN122R-BPMLXP3				GUN125R-DTTLXQ3		
	KUN122L-BTMSYV3				GUN126R-CTFSXQ3		
	KUN122L-BTMLYV3				GUN126R-CTTSXQ3		
	GUN120R-BTTXHT3				GUN126R-DTFSXQ3		
	GUN122R-BTMXYT3				GUN126R-DTTSXQ3		
	GUN122R-BTFXYT3		669			265/65R17	776
	GUN122L-BTMXYM3	205/70R15C			GUN126R-DTTHXQ3	265/60R18 AI *	775
	TGN121L-BTMXK3				GUN125R-BTEXHO3	200/001110/12	110
		213/031(100	000				
	GUN122R-BINMATIN3				GUN126R-BTFSHQ3		
	GUN122L-BTMLXM3				GUN126R-BITSHQ3		
	GUN120R-BTTLXT3				GUN125L-BGFXHG3		
	GUN122R-BTFLXT3				GUN126L-BGFXJG3		
	TGN121L-BTMLK3				GUN125L-BNFSHW3		
	TGN120R-BNMLKN3				GUN125L-BNFSXW3	225/70R17C	748
Pre-	GUN135R-BTFXHQ3				TGN126L-BTMLKV3		
Runner	GUN136R-BTFSHQ3				GUN125R-BTFLXQ3		
	GUN135L-BGEXHG3				GUN126R-BTESX03		
	GUN135L-BNEXHW3				GUN126R-BTTSXO3		
	GUN135L BNEXXW3	225/70R17C	748		CUN126L BGELXC3		
	GUNISSR-BIFLAQS				GUN125L-BGFLAG3		
	GUN136R-BTFSXQ3				GUN135L-BGFLXG3		
	GUN135L-BNFLXW3				GUN125R-BNFSXW3	225/70R17C	748
	GUN135L-CNFXXW3					265/65R17*	776*
	GUN135L-CNFXHW3	265/65R17	776		GUN125R-BNESXN3	225/70R17C	748
	GUN135L-CNFLXW3				CONT251C BIN 6XIN5	265/65R17 AL*	776*
					GUN125R-BNFLXN3	225/70R17C	748
					GUN125L-BNFLXN3	205R16C*	669*
					GUN125R-BNFXHN3		
					LAN125L-BNMXEN3	205R16C	669
					LAN125L-BNMI FN3		
						205R16C	669
					GUN125L-BNFXHN3	2051(100 225/70P17C*	7/2*
The optimized a single state of the second sta					223/101110	740	
			GUN125R-BNFSHN3	225/70K17C	748		
	es are design values				1	205/05K1/AL*	//b [^]

[4] Spare tire carrier handle (Jack handle)





12. Electrical wirings

The electrical wirings of the vehicle are specified taking the operating load and the operating frequency into consideration. When adding wirings for body-building or alterations, make sure that there is no safety problem.

[1] Consideration of existing vehicle wirings

(1) Interference

- ① Be sure that no wiring is caught between other parts.

2 Take care that the wiring is not flattened.



(2) Wiring arrangement

object.

A CAUTION: Don't pull the wiring forcibly.



U-039

(3) Mounting and demounting the connector

When removing the connector, don't pull the wire harness but by holding the connector body.



(4) Heat damage

- ① Secure an adequate clearance with the high-temperature parts.
- (2) Measure the temperature whenever required to eliminate the safety problems.
- Don't lay the wiring in the vicinity of the exhaust pipe or muffler or where the wiring is exposed directly to the exhaust gas.



(5) Serviceability

Make sure that the inspection and maintenance work on the wirings and electrical equipment can be conducted easily after the particular building or alterations.



(6) Mounting additional buzzer

When mounting a buzzer or the like on the alterations, always be sure that the sound of the buzzer is different from and does not double as that of any of the existing buzzers.

[2] Wiring

(1) Wire harness

- ① When extending the wiring or additional wiring, use the low-voltage wiring for vehicles specified according to JIS or ISO or JASO.
- (2) When extending the wiring or additional wiring, use the extension having the same type, sectional area and the same color as the existing one.
 - Don't extend the wiring in a corrugated tube
- ③ Apply a cover vinyl chloride tube or corrugated tube on the additional wiring in principle.

(2) Connection

- ① When extending the wiring or additional wiring, secure connection by means of a pressure-fit terminal or by brazing with a sufficient insulating covering.
 - If extending or additional wiring secure with existing aluminum wire (lavender color with stripe), it must be applied electrotap for aluminum wire.
- If is prohibited to apply aluminum wire crimping portion at water ingression area.

(3) Wiring arrangement

- ① Securely clamp the wiring with an appropriate clearance so that the wiring does not sag coming into contact with other parts.
 - The wiring should be arranged along a frame or a body member. Never clamp or tape it together with the fuel pipe or the brake pipe.



Use a clamp made of rubber or coated with vinyl.



Secure the inter-clamp interval of about 200 mm.

•



• Secure a sufficient clearance between the wiring and moving part or a sharp object.



② Always use a connector with lock. Don't use a plug-type connector as far as possible. If the use of a plug-type connector is unavoidable, set the female side as the positive power supply (+) in order for the connector not to come off and cause short circuit.

	Battery	y Connect to positive battery side (+)			
Connector with lock		Not acceptable Acceptable			
The power-supply connector, if disconnected, may dangerously cause short circuit with the body, etc.					
			J-138 U-046 U-045		

③ When mounting an additional electrical part, always attach a fusible link and the ground wire.

(4) Protection against water and dust

 Install the wiring at a (upper) position where the wiring is not likely to be damaged by water, dust, mud or snow pile, freezing or flying stones, or where it is not buried under dust or sand.



② Always use a grommet at a metal plate through hole to protect the wiring against water entry or damage.



- ③ Mount a cover or a protector to prevent water entry along the wiring.
 - A water-proof boot should be installed facing down.



- ④ A connector, if used at a position exposed to water, should always be of water-proof type.
- (5) To prevent water from running along wires, always make connections that the connector/terminal of electrical equipment is higher than the wire.



(6) After have modification on current vehicle, should maintain or keep current part condition as the same condition (e.g. tape lap method, COT shape, etc.) to prevent OEM vehicle system problem occurrence.
(5) Heat damage

A CAUTION:

Keep the wiring away from the exhaust pipe by 150 mm minimum, and from the muffler by 250 mm minimum.

• In cases where the above clearance cannot be satisfied, protection against the heat such as a heat insulating plate is required.



(6) Interference

- ① Take care that the wiring is not damaged by contact with the rotating or vibrating parts of the alteration or building.
- ② The wiring of the parts mounted on the engine or transmission should be laid along the existing wire harness with a sufficient sag in a manner to absorb relative motions while taking care that it does not come in contact with other parts.



③ Not connect or joint additional circuits at vibration/bending portion part.

(7) Ground wire

- ① Install the ground wire for an additional power supply always on the engine or frame.
- ② Mount the ground terminal securely in the form of a circular plate terminal.
- ③ Specification of Ground Wire size / current specification on vehicle wire size 5sq. Max current 60A, permitted current 40A



[3] Fuse

- ① Fuses of optimum capacity must be used for vehicles considering the operating electrical load and the operating frequency. Don't add any electrical load from accessories to the existing fuses.
- ② Always be sure to insert a fuse in an added wiring circuit. Use a vinyl-coated clamp, taking adequate care against short circuit.
 - The fuse capacity should be about 1.4 times the load current.

Ex : For the load current of 3A, $3 \times 1.4 = 4.2$ Therefore, the standard fuse capacity of 5A is the best choice.



Fuse rated current against load (Automobile Standard JASO D610-75)

Load current, A	below 7	7 min. and below 10	10 min. and below 14	14 min. and below 21
Fuse rated current, A	10	15	20	30

A 5A fuse can be used for the load current of 3.5A maximum.

[4] Switch

Each switch has a tolerable current. When a current of more than this value flows, the switch generates heat shortening its life. In extreme cases, it may melt down.

In the worst case, a vehicle fire may be caused. Always comply with the specified tolerable current value of the switch.

• When using the existing switch, take care that the total of the load on the vehicle side and that of the added electrical equipment does not exceed the tolerable current of the particular switch.

Vehicle

+

Added electrical equipment

Switch

<

 In the case where the required current is larger than the tolerable current value of the particular switch, provide a relay commensurate with the load current of the electrical equipment to pass the current of the electrical equipment through a different circuit.



[5] Power supply

(1) Power supply



Instructions

Interpose a subwire (with the wire of more than AV3 from subwire to fuse) between the ignition switch and the vehicle wire harness behind the combination meter to take out power.

(2) Connector style and wiring arrangement

· A-side connector (Part No.90980-11615) - Vehicle harness side



Connector arrangement	1	2	3	4
Power supply	-	ST2	IG2	AM2
Wire class	-	0.5W	0.5G	1.25BE

Connector arrangement	5	6	7	8
Power supply	AM1	-	ACC	IG1
Wire class	3.0R-	-	3.0B-	3.0Y-

*Note: B-side connector (Part No.99159-10821) - Steering column side

(3) Taking power directly from the battery

If you intend to take electrical power directly from battery, secure additional battery cable & battery terminal with the same nut. (For detail, see the following figure)

In this case, you must install a fuse at a suitable point in the circuit and take precautions to prevent short circuits as these may lead vehicle fires.

When securing additional battery cable and battery terminal, make sure you tighten the nut properly.



Condition for additional battery cable terminal

- ① If additional battery cable terminal thickness is not over than 1 mm., it is not necessary to change battery terminal.
- ② If additional battery cable terminal thickness is over than 1 mm., the battery terminal need to be changed to be longer stud bolt battery terminal (part no. 90982-05061) and the additional battery cable terminal thickness must not be over than 2.3 mm.
- Tightening torque of nut is required as above for both condition.

[6] Electrical wiring diagrams

This manual does not contain electrical wiring diagrams.

The electrical wiring diagrams are in the Publication MANUAL or Toyota Service Information website. For more details, please consult your nearest Toyota dealer or distributor.

[7] Sensor, camera

(1) Toyota safety sense

① Forward recognition camera

The forward recognition camera may not operate correctly in the following circumstances. This can result in unexpected accidents leading to serious injury, or in worst cases, death. (The various Toyota Safety Sense systems (dynamic radar cruise control system, pre-collision system, lane departure alert system and road sign assist system) may not operate correctly.)

- · Vehicle loaded beyond G.V.W.
- Modifications made that change the vehicle attitude in violation of regulations (suspension raising or lowering, tire size changed)
- · Liquid spilled on the forward recognition camera
- Strong light directed at the forward recognition camera
- · Lens of the forward recognition camera damaged or dirtied
- · Strong impact inflicted on the forward recognition camera
- · Position or angle of the forward recognition camera changed
- · Forward recognition camera removed
- Forward recognition camera disassembled
- · Forward recognition camera power supply diverted or shared
- · Heater of the forward recognition camera removed
- · Cover of the forward recognition camera removed
- · Roof or parts near the forward recognition camera such as the inner rear view mirror modified
- · Headlights or other lights modified
- · Stickers and transparent stickers applied to the windshield glass in front of the forward recognition camera



А	From the top of the windshield to approximately 1 cm below the bottom of the front camera
В	Approximately 20 cm (Approximately 10 cm to the right and left from the center of the front camera)

- · Film and transparent film applied to the windshield glass
- · Windshield glass replaced with non-Toyota genuine part
- Accessories installed on the engine hood, front grille or front bumper that could interfere with the forward recognition camera's field of view
- · Long structures installed on the roof that could interfere with the forward recognition camera's field of view
- Wiper inserts or wiper blades replaced with non-Toyota genuine part
- · Lens of the forward recognition camera is touched, fingerprints got on that

2 Millimeter wave radar sensor

- (a) The millimeter wave radar sensor may not operate correctly in the following circumstances. This can result in unexpected accidents leading to serious injury, or in worst cases, death. (The various Toyota Safety Sense systems (dynamic radar cruise control system, pre-collision system, lane departure alert system and road sign assist system) may not operate correctly.)
- · Vehicle loaded beyond G.V.W.
- Modifications made that change the vehicle attitude in violation of regulations (suspension raising or lowering)
- Millimeter wave radar sensor removed
- · Millimeter wave radar sensor disassembled
- · Position or angle of the millimeter wave radar sensor changed
- Millimeter wave radar sensor power supply diverted or shared
- Millimeter wave radar sensor radome damaged
- Strong impact inflicted on the millimeter wave radar sensor
- Radar sensor cover removed
- Radar sensor cover damaged
- · Paint applied in the area around the radar sensor cover
- · Cloth or similar covering the radar sensor cover while driving
- Radar sensor cover replaced with non-Toyota genuine part
- · Front grille or front bumper replaced with non-Toyota genuine part
- · Structures such as bull bars set in front of the millimeter wave radar sensor
- · Object positioned between the millimeter wave radar sensor radome and the radar sensor cover

(b) The millimeter wave radar cannot or cannot stably detect the following objects.

- The plastic such as pylons, glass such as the entrances of the convenience store, the things which have low height such as curbstones.
- A person lying on the ground object lying on the ground
- · Pedestrian, bicycle, motorcycle, growing tree, animal, wall.

- (c) The millimeter wave radar could not detect targets or could not accurately detect the distances, angles and velocities of the targets.
- When a forward vehicle and the vehicle of other traffic lanes raise up road water or snow.
- When there are few areas of the rear end of the front vehicle (e.g., trailer of the empty load)
- When a vehicle posture extremely changes by vehicle remodeling or overloading
- When a raindrop, snow attach to the front of the millimeter wave radar or front / back of the grill cover.
- At the time of bad weather (rain, fog, snow, sandstorm etc.)
- A vehicle suddenly cut in through close and two-wheeled vehicle which runs the same traffic lane edge of the short distance. (Because the detective area of the millimeter wave radar is narrow.)
- When a shock is added to a front grill and a cover. (even if damage is not founded in the appearance, the cover inside is damaged, and influence may be reflected on detective performance.)
- When a front grill and cover are warped by a shock, and an installation state of the millimeter wave radar changes.
- When non-exclusive cover is used
- The parts which interfere with an electric wave of the millimeter wave radars such as bulldog bars is equipped with.
- When coating and seal pasting up or the painting are done by an exclusive cover.
- (d) The millimeter wave radar may detect signboard in the upper part, structures such as signals, ceiling of the tunnel, iron plate on the road used by construction, viaduct, the joint of the bridge, manhole, cat's-eye, cover of the gutter, bottle, can.
- (e) Vehicle of the adjacent traffic lane during a curve run and the vehicle which runs the adjacent traffic lane of the distant place.
- (f) There is possibility of false detection or non-detection in the millimeter wave radar in the environment with many reflectors around the tunnels.
- (g) Please always clean the front part of cover of the grill and radar, because the thing to show below obstructs the recognition of the millimeter wave radar.
- Dirts such as mud, an insect, oils.
- Snow
- Metal film (Aluminum foil, the cake bag that it was coated metal)

(h) Handling Precaution

- Please do not force the radar and around strongly.
- Do not decompose it down.
- Do not use one which has been dropped or forced.
- Please send your vehicle to dealer shop in case that its bumper or grille is hit, because the radar couldn't normally activate because of its mechanical failure, misalignment and so on.
- Do not change the cover in front of the radar for exclusive of the one in order to prevent from intentional activation.
 - note: The transparency and scattering of this cover for radio wave is controlled
- · Do not paint on the cover in order to prevent from intentional activation.
- · Do not remodel the radar's joints in order to prevent from intentional activation.
- Do not attach any sticker or accessory around the radar and the cover even if it is transparent.
- Do not force the cover strongly. The detection performance could be affected because the cover was damaged.
- Please remove snow in front of the radar and its cover before driving. The snow could affect the performance of radar detection.
- Please remove soil in front of the radar and its cover before driving. The snow could affect the performance of radar detection.
- Do not remodel the vehicle if the height of the vehicle or vehicle posture was changed. It could affect the performance of radar detection.
- This production meet the standards of radio law of each countries. Do not remove the label marking on the radar because it is an evidence for this regulation.



Detection Range of Forward Recognition Camera



Detection Range of Millimeter Wave Radar Sensor



13. Headlamp-levelling controls

The following vehicles models are equipped with a headlamp-leveling control system to minimize dazzling of other road users.

					*: Optional
Destination	Drive	Model	Destination	Drive	Model
Australia	2WD	TGN121R-BTMXKQ3	Thailand	2WD	GUN120R-BTTXHT3
	2WD	TGN121R-BTTXKQ3		2WD	GUN122R-BTMXYT3
	2WD	GUN122R-BTMXYQ3		2WD	GUN122R-BTFXYT3
	2WD	GUN123R-BTMSYQ3	Philippines	2WD	GUN122L-BTMXYM3
	4WD	GUN125R-BTFXHQ3	General (Mexico)	2WD	TGN121L-BTMXK3*
	4WD	GUN125R-BTTXHQ3	Central & South	4WD	GUN125L-BGFXHG3
	4WD	GUN125R-CTFXHQ3	America	4WD	GUN126L-BGFXJG3
	4WD	GUN125R-DTTXHQ3		Pre-Runner	GUN135L-BGFXHG3
	4WD	GUN126R-BTFSHQ3			GUN135L-BGFLXG3
	4WD	GUN126R-BTTSHQ3		4WD	GUN126L-BGFLXG3
	4WD	GUN125R-CTTXHQ3			GUN125L-BGFLXG3
	4WD	GUN126R-CTFSHQ3	Europe	4WD	GUN125R-BNFSXW3
	4WD	GUN126R-CTTSHQ3		4WD	GUN125R-CNFSXW3
	4WD	GUN126R-DTFSHQ3		4WD	GUN125R-DNFSXW3
	4WD	GUN126R-DTTSHQ3		4WD	GUN125L-BNFSHW3
	Pre-Runner	GUN135R-BTFXHQ3		4WD	GUN125L-BNFSXW3
	2WD	TGN121R-BTMLKQ3		4WD	GUN125L-CNFSHW3
	2WD	TGN121R-BTTLKQ3		4WD	GUN125L-CNFSXW3
	4WD	GUN125R-BTFLXQ3		4WD	GUN125L-DNFSHW3
	4WD	GUN126R-BTFSXQ3		4WD	GUN125L-DNFSXW3
	4WD	GUN126R-BTTSXQ3		Pre-Runner	GUN135L-BNFXHW3
	Pre-Runner	GUN135R-BTFLXQ3		Pre-Runner	GUN135L-BNFXXW3
	4WD	GUN125R-CTTLXQ3		Pre-Runner	GUN135L-CNFXHW3
	4WD	GUN126R-CTFSXQ3		Pre-Runner	GUN135L-CNFXXW3
	4WD	GUN126R-CTTSXQ3		Pre-Runner	GUN135L-BNFLXW3
	4WD	GUN125R-DTTLXQ3		Pre-Runner	GUN135L-CNFLXW3
	4WD	GUN126R-DTFSXQ3	S. Africa	2WD	TGN120R-BNMXKN3
	4WD	GUN126R-DTTSXQ3		2WD	GUN122R-BNMXYN3
New Zealand	Pre-Runner	GUN136R-BTFSHQ3		2WD	TGN120R-BNMLKN3
	Pre-Runner	GUN136R-BTFSXQ3		2WD	GUN122R-BNMLXN3
G.C.C.	2WD	KUN122L-BTMSYV3*		4WD	GUN125R-BNFSXN3
	2WD	KUN122L-BTMLYV3*	S. Africa/Kenya	4WD	GUN125R-BNFSHN3
	2WD	GUN122L-BTMLXV3	Kenya	4WD	GUN125R-BNFXHN3
	2WD	GUN122L-BTMSXV3	1	4WD	GUN125R-BNFLXN3
Pakistan	2WD	KUN122R-BPMLYP3	Angola	4WD	GUN125L-BNFXHN3
	2WD	GUN122R-BPMLYP3	W. Africa	4WD	LAN125L-BNMXEN3

The alignment of headlamps can be adjusted by rotating the headlamp-leveling control switch from the driver's seat.

Before turning on the headlamps, please adjust correctly the headlamp-leveling control switch according to the following table.

Indication figure of control switch

Model	TGN121R-BTMXKQ3 TGN121R-BTTXKQ3 GUN125R-BTFXHQ3 GUN126R-BTFSHQ3 GUN126R-BTFSHQ3 GUN136R-BTFSHQ3 GUN135L-BNFXW3 GUN135L-BGFXHG3 GUN125L-BGFXHG3 GUN125R-BNFXHN3 GUN125L-BNFXHN3 LAN125L-BNFXHN3	TGN121L-BTMXK3* ¹ GUN125R-BNFSXN3	GUN122R-BTMXYT3 GUN122R-BTFXYT3 GUN122R-BTFXYT3 GUN122L-BTMXYM3 GUN122R-BTMXYQ3 GUN123R-BTMXYQ3 GUN125R-BTTXHQ3 GUN126R-CTTSHQ3 GUN126R-DTFSHQ3 GUN126R-DTFSHQ3 GUN126R-DTTSHQ3 GUN126R-DTTSHQ3 GUN122L-BTMSYV3*1 KUN122L-BTMSYV3*1	GUN135L-BNFXHW3 GUN125L-BNFSHW3 GUN125L-BNFSKW3 KUN122R-BPMLYP3 TGN120R-BNMXKN3 GUN122R-BNMXYN3 GUN126L-BGFXJG3 (VALEO)* ² GUN122R-BPMLYP3 TGN121R-BTMLKQ3 TGN121R-BTTLKQ3 GUN125R-BTFLXQ3 GUN126R-BTFLXQ3 GUN126R-BTFSXQ3	GUN136R-BTFSXQ3 GUN122L-BTMLXV3 GUN122L-BTMSXV3 GUN135L-BNFLXW3 TGN120R-BNMLKN3 GUN122R-BNMLXN3 GUN125R-BNFLXN3 GUN125L-BGFLXG3 (VALEO)* ² GUN126L-BGFLXG3 (VALEO)* ² GUN135L-BGFLXG3 (VALEO)* ²
condition			KUN122L-BTMLYV3	GUN126R-BITSXQ3	
Driver only	0		0		
Diver + Full loading	ıll 2.5			3.0	

Model Loading condition	GUN125R-CTFXHQ3 GUN125R-DTTXHQ3 GUN135L-CNFXHW3 GUN125L-CNFSHW3 GUN125L-DNFSHW3 GUN125R-BNFSXW3 GUN135L-CNFXXW3 GUN135L-CNFXXW3 GUN126L-BGFXJG3 (KOITO)*3	GUN125R-CNFSXW3 GUN125R-DNFSXW3 GUN125L-CNFSXW3 GUN125L-DNFSXW3 GUN125R-CTTLXQ3 GUN125R-CTTLXQ3 GUN126R-CTFSXQ3 GUN126R-CTTSXQ3 GUN126R-DTFSXQ3 GUN126R-DTTSXQ3	GUN135L-CNFLXW3 GUN125L-BGFLXG3 (KOITO)* ³ GUN126L-BGFLXG3 (KOITO)* ³ GUN135L-BGFLXG3 (KOITO)* ³
Driver only	0		0
Diver + Full loading	3.5	4.0	

*1: Optional

*²: VALEO = Production suffix codes are "SE-GV" and "SE-GW"
*³: KOITO = Production suffix codes are "SE-AX", "SE-AY" and "SE-AZ"





Levelling switch position must be reconfirmed after modifying vehicle structure due to mass change.

Headlamp aiming of other vehicle models is adjusted according to the repair manual.

14. Mounting rear combination lamp

In the case of the cab & chassis model, the rear combination lamp is mounted as a rear combination lamp subassembly shown in the drawing.



- ① Make sure that the rear combination lamp is mounted according to the laws and regulations of the countries concerned.
- ② Take care that no object which blocks the field of view is located before the rear combination lamp.



③ Install a water guard plate in order to prevent direct exposure to water splashed up from the rear wheels.



(1) Rear combination light (For Europe)



	Description	Dimension
*1	Maximum distance from outer edge of vehicle to inner edge of lamp	400mm
*2	Minimum angle of obstruction free zone towards the center of the vehicle	45°
*3	Minimum angle of obstruction free zone towards the outside of the vehicle	90°
*4	Minimum distance from ground to lower edge of lamp	250mm
*5	Maximum distance from ground to upper edge of lamp	1200mm
*6	Minimum angle of obstruction free zone upwards of the lamp	15°
*7	Minimum angle of obstruction free zone downwards of the lamp	15°

(2) Rear fog light (For Europe)



	Description	Dimension
*1	Minimum angle of obstruction free zone towards the center of the vehicle	25°
*2	Minimum angle of obstruction free zone towards the outside of the vehicle	25°
*3	Minimum distance from ground to lower edge of lamp	250mm
*4	Maximum distance from ground to upper edge of lamp	1000mm
*5	Minimum angle of obstruction free zone upwards of the lamp	5°
*6	Minimum angle of obstruction free zone downwards of the lamp	5°

15. License plate and license lamp

A provisional license plate and a provisional license lamp are attached to the cab & chassis model being shipped. When attaching an official license plate, conform with the related laws and regulations of the country concerned.



Note : For Brazil, license plate is attached to rear bumper.

Do not use to other portion or modify license plate bracket.

- ① Make sure that the license plate & lamp is mounted according to the laws and regulations of the countries concerned.
- (2) Don't attach the license plate or the license lamp at a position where the rear bumper or the rear combination lamp is hidden or the operation of the spare tire carrier is adversely affected.
- ③ Mount the license lamp at such a position where it is not exposed directly to the water splashed by the rear wheels.



④ For the dimensions of the license plate and the license lamp, refer to the separate sheet.

(1) License lamp (For Europe)



	Description	Dimension
*1	Distance between fixing point of license plate and lamp mounting face	73.7mm
*2	Angle between license plate and lamp mounting face	88.3°
*3	Horizontal distance between fixing point of license plate and center of lamp mounting	28.1mm

16. Reflector

The reflector is included in the rear combination lamp.

· Mount the side reflector according to the laws and regulations of the country concerned.

17. Interior

[1] Tire pressure warning system

When a box-type carrier is installed, electrical waves from the tire pressure warning valve and transmitters attached to the tires do not reach the tire pressure warning ECU and receiver, and the tire pressure warning system may not function properly (the warning lamp may turn on).

Location of Tire Pressure Warning ECU and Receiver



18. Remove of the rear deck

Refer to the following procedure when removing the rear deck.

- (1) Remove the tail light.
- (2) Disconnect the license plate light wire harness.
- (3) Remove the wheel housing liner on the left side.
- (4) Disconnect the fuel inlet pipe attachment and fuel lid opener cable.
- (5) Disconnect the frame-side wire harness secured to the deck.
- (6) Remove the rear bumper.
- (7) Remove the deck mount bolt.



When disconnecting the deck, be especially careful of it interfering with the cabin. When lifting the deck using a crane or the like, pay attention to where it is secured and how it is balanced.

Component	Single Cab	Extra Cab	Double Cab
Rear Deck*	165 kg	145 kg	125 kg

*: Incl. the add-on parts for the rear lid, hinges, tail light cluster, wheel housing liner and rear lid lock.

19. Engine control

[1] Idle up control for refrigerator (Reference)

If a refrigerator or the like is installed, increase the engine idling speed to 1100 rpm by operating the signal linked with the refrigerator while the vehicle is stopped, in order to compensate for insufficient power while the vehicle is stopped.

Applied models:

GUN120R-BTTLXT3	GUN122R-BTFLXT3	GUN122R-BNMLXN3
GUN125R-BNFLXN3	GUN125R-BNFSXN3	

(1) Function Description

Performing idle up by receiving refrigerator's signal

(2) Subject Drive Mode

Active Lo

(3) EFI-ECU Specification

	min	typ	max
Lo threshold (EFI terminal (A))	1.5V*	-	-
Discharge current (EFI terminal \bigcirc)	-	-	1.63mA

*: Based on the EFI GND

(4) Other Constraints

- \cdot Not to apply voltage over 100V to the terminal including surge
- The difference between the circuitry and the EFI GND is to be less than 1V, and the threshold is to be satisfied.
- · Duty control is not applied.

(5) Example of electronic connection

Body builder's connect for refrigerator control.







[4] DRAWINGS

1-1. Cab & Chassis drawing Single Cab





[4]-1. Cab & Chassis drawing

1-2. Cab & Chassis drawing Extra Cab





- 89 -

[4]-1. Cab & Chassis drawing

1-3. Cab & Chassis drawing Double Cab





- 90 -







959

826.9

211.3

196.

1335

1005

218.4

421

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2-4. Frame drawing Double Cab, Long Wheel base, 4WD











2-6. Frame drawing Body Attachment Holes Single Cab


















































Reference data

Relation between Alternator and Engine r.p.m

Alternator speed [rpr	n]	2000	3000	4000	5000	6000	7000	8000	9000	10000
Engine speed [rpm]	ngine speed [rpm] TR engine				1810	2172	2534	2897	3259	3621
	GD/KD engine				1877	2252	2628	3003	3379	3754

Pulley ratio

TR engine	2.762 (145/52.5)
GD/KD engine	2.664 (154.5/58)



Lamp specification	
Turn Signal Lamp	12V 21W
Tail Lamp	12V 5W
Stop Lamp	12V 21W
Back up Lamp	12V 21W

Terminal of Wiring

	3
1	Turn Signal Lamp
2	Tail Lamp
3	Ground
4	Stop Lamp
5	Back up Lamp
6	Space







7-3. License lamp-related chart

License Plate Bracket Hanger

This bracket can only be used when in the cab & chassis state.

Vehicles equipped with accessories require brackets designed to satisfy strength, quality and regulatory requirements.







9-1. Towing hitch

Towing hitch installation holes are built into the rear of the rear side members.

When installing the towing hitch, confirm local regulations and ensure that a sufficient rigidity is available. Make sure that the installed towing hitch does not have a negative impact on the vehicle performance, and the towing capacity should be set by the body builders.



(Reference) Genuine accesory in Australia



10. <Reference> Deck Space (On the floor)

Cab type	Singl	e cab	Extra cab	Double cab			
Wheel base	Short	Long	Long	Lo	ng		
Deck type	J Deck	J Deck	A Deck	A Deck	J Deck		
Deck height (mm)	480	480	480	480	480		
Deck length (mm)	2015	2350	1840	1555	1555		
Deck width (mm)	1575	1575	1540	1540	1575		



Extra cab



Double cab



[5] MAJOR TECHNICAL SPECIFICATIONS

					1	2	3	4	5	6	7	8	9	10
	Destination				Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia
	Body type				Single cab	Single cab	Single cab	Single cab	Single cab	Single cab				
	Drive system				2\\\/D	2\\//D	2\\\/D	2\\\/D	2\\\/D					
	Madal Cada													
	Model Code				IGN121R-	IGNIZIR-	IGNIZIR-	IGNIZIR-	GUN122R-	GUN123R-	GUN125R-	GUN125R-	GUN125R-	GUN126R-
		1			BTMXKQ3	BLIXKQ3	BTMLKQ3	BLIEKQ3	BIMXYQ3	BIMSYQ3	BIFXHQ3	BLIXHQ3	BIFLXQ3	BTESHQ3
	Overall	Length		mm	5265	5265	-	-	5200	5200	5265	5200	-	5265
c		Width (OPT : Si	de step, With or without)	mm	1815 (1800)	1815 (1800)	-	-	1800 (1815)	1800 (1815)	1815 (1800)	1815 (1800)	-	1815 (1800)
<u>9</u> .		Height	1	mm	1690	1690	1690	1690	1690	1690	1795	1795	1795	1795
ů.	Wheel Base	rioigin		mm	3085	3085			3085	3085	3000	3085		3000
Ĕ	Tread		Frant		1540	4540	-	-	1510	1540	4.405	1405		4.405
ā	Tread		Front	mm	1510	1510	1510	1510	1510	1510	1495	1495	1495	1495
۲ ۲			Rear	mm	1510	1510	1510	1510	1510	1510	1510	1510	1510	1510
Ъ.	Cab end to Rear Ax	е		mm										
Σ	Fuel Tank Capacity			Liters	80	80	80	80	80	80	80	80	80	80
	Seating Capacity (O	PT)		Persons	2	2	2	2	2	2	2	2	2	2
	Uncorrung Woight As		Front	ka	106	106	106	106	106	106	150	150	150	150
			n iont	ky	100	100	100	100	100	100	100	130	150	150
			Rear	кд	180	180	180	180	180	180	200	200	200	200
	Chassis and Cab Cu	irb Weight	Front	kg	935	945	925-935	935-945	1025	1040	1195	1195	1180-1195	1205
ц.			Rear	kg	560	565	550-560	555-565	565	570	605	605	595-605	615
Ъ			Total	kg	1495	1510	1475-1495	1490-1510	1590	1610	1800	1800	1775-1800	1820
lei	Gross Vehicle Weig	nt	Front	ka	1050	1060	-	-	1140	1155	1310	1310	-	1320
3	Cross veriole vvelgi		Poor	ka	1650	1640	<u>+</u>		1670	1655	1600	1600	÷	1600
				ĸy	0001	1040	-	-	10/0	0010	1090	1090	-	1000
			lotal	кg	2700	2700	2700	2700	2810	2810	3000	3000	3050	3000
	Max. Permissible Ax	le Capacity	Front	kg	1200	1200	1200	1200	1200	1200	1450	1450	1480	1450
			Rear	kg	1750	1750	1750	1750	1750	1750	1700	1700	1700	1700
Min.	Turning Radius (tire)			m	5.9	5.9	5.9	5.9	5.9	5.9	6.3	6.3	6.3	6.3
	Engine	Т			2TR-FF	2TR-FF	2TR-FF	2TR-FF	2GD-FTV	1GD-FTV	2GD-FT\/(H)	2GD-FTV(H)	2GD-FTV/H)	1GD-FTV(H)
	Lingino	-	iaplacement	00	2604	2004	2604	2604	200111	2755	200110(11)	200110(11)	200110(11)	2755
			Isplacement		2094	2094	2094	2094	2393	2700	2393	2393	2393	2700
ne		IV	lax. Power	KVV/rpm	122/5200	122/5200	122/5200	122/5200	110/3400	125/3600	110/3400	110/3400	110/3400	130/3400
jĝ		N	lax. Torque	N∙m/rpm	245/4000	245/4000	245/400	245/4000	343/1400-2800	343/1200-3400	400/1600-2000	400/1600-2000	400/1600-2000	420/1400-2600
ш	Battery (20Hr. rate)			А	55D	55D	55D	55D	80D	80D	80D	80D	80D	80D
	Alternator			Α	80	80	80	80	80	80	80	80	115	80
	Starter			k/M	1.6	1 6	1 6	1 6	2.2	(2 0)-2 2	2 0-2 2	2.2	20-22	20-22
	Transmission	L.	ladal	KV V	D151	1.0	D151	1.0	D161	(2.0)-2.2 D151	DC60	2.2	2.0-2.2 DCc0	2.0-2.2 DC61
	1141151111551011			4.4	K 101	AC00	<u> </u>	AC60		<u>KIJI</u>	KC00	AC60	KC00	1704
		G	ear Ratio	1St	4.313	3.600	4.313	3.600	4.313	4.313	4.784	3.600	4.784	4.784
				2nd	2.330	2.090	2.330	2.090	2.330	2.330	2.423	2.090	2.423	2.423
				3rd	1.436	1.488	1.436	1.488	1.436	1.436	1.443	1.488	1.443	1.443
				4th	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
				5th	0.838	0.687	0.838	0.687	0.838	0.838	0 777	0.687	0 777	0.826
				6th	0.000	0.580		0.580		0.000	0.642	0.580	0.642	0.642
				Deverse	4 000	0.000	4 220	0.000	4 220	4 0 0 0	4 066	0.000	4.000	4.000
	Difference (* 1			Reverse	4.220	3.132	4.220	3.132	4.220	4.220	4.000	3.132	4.000	4.000
	Differential	Gear Ratio			4.100	4.100	4.100	4.100	3.583	3.583	3.583	4.100	3.583	3.583
	Front Suspension	Coil Spring S	ize Diameter (upper)	mm	138.7	138.7	138.7	138.7	139.3	139.3	96	96	96	96
			Height (free)	mm	296	296	301.1	301.1	296.5	296.5	361.3	361.3	361.3	361.3
			Height (set)	mm	199	199	199	199	199	199	265	265	265	265
			Diameter of wire	mm	16 7	16.7	16.7	16.7	17.3	17.3	16.3	16.3	16.3	16.3
s			Pate	N/mm	<u>80 1</u>	<u>80 1</u>	80.1	80.1	80 /	88.4	120	120	120	120
SSI	Deer Cuer								00.4				120	
Ja	Rear Suspension	Lear Spring S		m	1509*60*8-1	1509*60*8-1	1509"60*8-1	1509"60^8-1	1509*60*8-1	1509*60*8-1	1658*60*9-1	1658*60*9-1	1008"60^9-1	1658*60*9-1
ò			():OPT. Heavy duty		1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1414*60*9-1	1414*60*9-1	1414*60*9-1	1414*60*9-1
			leaf OPT.		998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	1130*60*8-1	1130*60*8-1	1130*60*8-1	1130*60*8-1
					815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	960*60*15-1	960*60*15-1	960*60*15-1	960*60*15-1
					517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	526*60*15-1	526*60*15-1	526*60*15-1	526*60*15-1
			ata	N/mm		10 1 140	40.4.446		10 1 146	10 1 140	27 0 446	27.0 146	27 0 446	27 0 146
	T in -			IN/11111	40.1~110	40.1~110	40.1~110	40.1~110	40.1~110	40.1~110	31.0~110	37.0~110	31.0~110	31.0~110
	lire	Size <option></option>	Front & Rear		215/65R16C	215/65R16C	215/65R16C	215/65R16C	215/65R16C	215/65R16C	225/70R17C	225/70R17C	225/70R17C	225/70R17C
		Pressure	Front (Loaded)	kPa	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)
		1 1000010	Ontion (Loaded)	k Do										
							200 (270)	200 (270)	200 (270)	200 (270)	240 (202)		240 (200)	240 (200)
			Rear (Loaded)	кРа	290 (370)	290 (370)	290 (370)	290 (370)	290 (370)	290 (370)	240 (300)	240 (300)	240 (300)	240 (300)
			Option (Loaded)	kPa			 	 				 		
	Brake & System	Control Valve	LSPV		-	-	-	-	-	-	-	-	-	-
		Anti-Lock Brake	System (ABS) *W/O LSPV	,	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
		Vehicle Stability	Control (VSC)		STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
	1				0.0	0.0	0.0	0.0		0.0	0.0	0.0		

					11	12	13	14	15	16	17	18	19	20
	Destination				Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia
	Body type				Single cab	Single cab	Single cab	Single cab	Single cab	Extra cab	Extra cab	Extra cab	Extra cab	Extra cab
	Drive system				4WD	4WD	4WD	Pre-Runner	Pre-Runner	4WD	4WD	4WD	4WD	4WD
	Model code				GUN126R-	GUN126R-	GUN126R-	GUN135R-	GUN135R-	GUN125R-	GUN125R-	GUN125R-	GUN126R-	GUN126R-
					BTTSHQ3	BTFSXQ3	BTTSXQ3	BTFXHQ3	BTFLXQ3	CTFXHQ3	CTTXHQ3	CTTLXQ3	CTFSHQ3	CTTSHQ3
	Overall	Length		mm	5265		-	5265		5200	5285	-	5285	5285
uc		Width (OPT	Side step, With or without)	mm	1815 (1800)	- 	- 	1815 (1800)		1855	1855	-	1855	1855
JSi		Height		mm	1795	1795	1795	1795	1795	1810	1810	1810	1810	1810
neı	Wheel Base		1_	mm	3090	-		3090		3085	3090	-	3090	3090
Dir	Iread		Front	mm	1495	1495	1495	1495	1495	1535	1535	1535	1535	1535
or			Rear	mm	1510	1510	1510	1510	1510	1550	1550	1550	1550	1550
٩aj	Cab end to Rear A	xie		mm										
~	Fuel Tank Capacity			Liters	80	80	80	80	80	80	80	80	80	80
	Seating Capacity (C		Front	Persons	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	4	4	4	4	4
	Unsprung weight A	AXIE	Poor	kg	100	150	100	100	100	150	150	100	100	100
	Chassis and Cab C	Surb Woight	Eront	kg	1205	1105 1210	1105 1210	1175	1060 1075	200	1245 1240	1255 1250	1220 1225	1240
	Chassis and Cab C		Rear	ka	615	605-615	605-615	500	580-500	600-685	605-600	605-600	605-600	700-605
<u>j</u> ht			Total	ka	1820	1800-1825	1800-1825	1765	1640-1665	1920-1010	1940-1930	1950-19/0	1925-1015	1940-1035
/eiç	Gross Vehicle weig	ıht	Front	ka	1320	-	-	1175	-	1325-1320	1340-1335	-	1320-1315	1330
\leq	Lieve i eniore morg	,	Rear	kg	1680		-	1575		1675-1680	1660-1665	-	1730-1735	1720
			Total	kġ	3000	3050	3050	2750	2900	3000	3000	3050	3050	3050
	Max. Permissible A	xle Capacity	Front	kg	1450	1480	1480	1450	1480	1450	1450	1480	1450	1450
			Rear	kg	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
Min. ⁻	Turning Radius (tire	e)		m	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
	Engine		Туре		1GD-FTV(H)	1GD-FTV(H)	1GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	1GD-FTV(H)	1GD-FTV(H)
			Displacement	CC	2755	2755	2755	2393	2393	2393	2393	2393	2755	2755
ne			Max. Power	kW/rpm	130/3400	150/3400	150/3000-3400	110/3400	110/3400	110/3400	110/3400	110/3400	130/3400	130/3400
ngi			Max. Torque	N∙m/rpm	450/1600-2400	420/1400-3400	500/1600-2800	400/1600-2000	400/1600-2000	400/1600-2000	400/1600-2000	400/1600-2000	420/1400-2600	450/1600-2400
ш	Battery (20Hr. rate)			A	80D	80D	80D	80D	80D	80D	80D	80D	80D	80D
	Alternator			A	80	115	115	80	115	80	80	115	80	80
	Starter		Madal	KVV	2.0-2.2	2.0-2.2 DC61	2.0-2.2	2.0-2.2	2.0-2.2	(2.0)-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2
	Transmission			1 ot	AC60	4 794	2 600	4 794	A 794	4 704	AC60	AC60	4 794	2 600
			Geal Ratio	2nd	2 000	2 / 23	2 000	2 / 23	2 /22	4.704 2.703	2 000	2 000	2 / 23	2 000
				3rd	1 488	1 433	1 488	1 443	1 443	1 443	1 488	1 488	1 443	1 488
				4th	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
				5th	0.687	0.826	0.687	0.777	0.777	0.777	0.687	0.687	0.826	0.687
				6th	0.580	0.643	0.580	0.643	0.643	0.643	0.580	0.580	0.643	0.580
				Reverse	3.732	4.066	3.732	4.066	4.066	4.066	3.732	3.732	4.066	3.732
	Differential	Gear Ratio			3.909	3.583	3.909	3.583	3.583	3.583	4.100	4.100	3.583	3.909
	Front Suspension	Coil Spring	Size Diameter (upper)	mm	96	96	96	95	96	96	96	96	96	96
			Height (free)	mm	361.3	361.3	361.3	359.8	356.6	361.3	361.3	361.3	361.3	361.3
			Height (set)	mm	265	265	265	265	265	265	265	265	265	265
6			Diameter of wire	mm	16.3	16.3	16.3	15.7	16.1	16.3	16.3	16.3	16.3	16.3
SSi	Door Suppopular	Loof Caring		N/mm	120	120	120	110	120	120	120	120	120	120
ha	Rear Suspension	Lear Spring		mm	1658^60^9-1	1658 60 9-1	1658 60 9-1	1658^60*9-1	1658^60*9-1	1652*60*8-1	1652*60*8-1	1653^60^8-1	1652^60^8-1	1652^60^8-1
0			():OP1. Heavy duty		1414"60"9-1	1414"60"9-1	1414"60"9-1	1414"60"9-1	1414"60"9-1	1414"60"9-1	1414"60"9-1	1413"60"8-1	1414*60*9-1	1414*60*9-1
			lear OP I.							1014 00 9-1	1014 00 9-1	1000*60*9 1		1014 00 9-1
					526*60*15-1	526*60*15-1	526*60*15-1	526*60*15-1	526*60*15-1	538*60*1 <i>1</i> -1	538*60*14-1	774*60*16-1	538*60*14-1	538*60*17-1
			Rate	N/mm	37.8~116	37.8~116	37.8~116	37.8~116	37.8~116	36.8~83.9	36.8~83.9	38 1~84 2	36.8~83.9	36 8~83 9
	Tire	Size	Front & Rear		225/70R17C	225/70R17C	225/70R17C	225/70R17C	225/70R17C	265/65R17	265/65R17	265/65R17	265/65R17	265/65R17
		<option></option>					-	--					+	
		Pressure	Front (Loaded)	kPa	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	200 (230)	200 (230)	200 (230)	200 (230)	200 (230)
			Option (Loaded)	kPa			<u>`</u> `	<u>`</u> `	```	```	<u>`</u>		````	źźź
			Rear (Loaded)	kPa	240 (300)	240 (300)	240 (300)	240 (300)	240 (300)	200 (250)	200 (250)	200 (250)	200 (250)	200 (250)
			Option (Loaded)	kPa										
	Brake & system	Control Valve	e LSPV		-	-	-	-	-	-	-	-	-	
		Anti-Lock Bra	ake System (ABS) *W/O LSPV		STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
		Vehicle Stab	ility Control (VSC)		STD	STD	STD	STD	STD	STD	STD	STD	STD	STD

-					21	22	23	24	25	26	27	28	29	30
	Destination				Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia	Australia	New Zealand
	Body type				Extra cab	Extra cab	Double cab	Double cab	Double cab	Double cab	Double cab	Double cab	Double cab	Single cab
	Drive system				4WD	4WD	4WD	4WD	4WD	4WD	4WD	4WD	4WD	Pre-Runner
	Model code				GUN126R-	GUN126R-	GUN125R-	GUN125R-	GUN126R-	GUN126R-	GUN126R-	GUN126R-	GUN126R-	GUN136R-
				_	CTFSXQ3	CTTSXQ3	DTTXHQ3	DTTLXQ3	DTFSHQ3	DTTSHQ3	DTFSXQ3	DTTHXQ3	DTTSXQ3	BTFSHQ3
1	Overall Length	th		mm	-	-	5285	-	5265	5265	-	-	-	5265
S	Width	ו (OPT : 3	Side step, With or without)	mm	-	-	1855	-	1855	1855	-	-	-	1815 (1800)
JSI (Height	nt		mm	1810	1810	1815	1815	1815	1815	1815	1815	1815	1795
ner	Wheel Base			mm	-	-	3090	-	3090	3090	-	-	-	3090
	Tread		Front	mm	1535	1535	1535	1535	1535	1535	1535	1535	1535	1495
٦ -			Rear	mm	1550	1550	1550	1550	1550	1550	1550	1550	1550	1510
١aj	Cab end to Rear Axle			mm										
~	Fuel Tank Capacity			Liters	80	80	80	80	80	80	80	80	80	80
	Seating Capacity (OPT)		Front	Persons	4	4	5	5	5	5	5	5	5	<u> </u>
	Unsprung weight Axie		Pront	kg	150	150	150	150	150	150	150	150	150	150
	Chassis and Cab Curb Wai	viaht	Front	kg	200	200	200	200	200	200	200	200	200	200
		agni	Pion	kg	605 600	700.605	715 710	715 710	725 720	725 720	725 720	720 765	725 720	600
ž			Total	ka	1935-1925	1950-195	1955-1950	1965-1960	1975-1965	1075-1065	1085-1075	1945-2000	1085-1075	1785
ei (Gross Vehicle weight		Front	ka	-	-	1325	-	1335-1330	1335-1330	-	-	-	1300
\$	e.coo voniolo worgin		Rear	ka	-		1675		1665-1670	1665-1670			-	1700
			Total	ka	3100	3100	3000	3050	3000	3000	3050	3050	3050	3000
Ī	Max. Permissible Axle Capa	pacity	Front	kg	1480	1480	1450	1480	1450	1450	1480	1480	1480	1450
	•	-	Rear	kg	1700	1700	1700	1700	1700	1700	1700	1700	1700	1700
lin. 1	urning Radius (tire)			m	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
	Engine		Туре	_	1GD-FTV(H)	1GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	1GD-FTV(H)	1GD-FTV(H)	1GD-FTV(H)	1GD-FTV(H)	1GD-FTV(H)	1GD-FTV(H)
		-	Displacement	CC	2755	2755	2393	2393	2755	2755	2755	2755	2755	2755
ne			Max. Power	kW/rpm	150/3400	150/3000-3400	110/3400	110/3400	130/3400	130/3400	150/3400	150/3000-3400	150/3000-3400	130/3400
ngi			Max. Torque	N∙m/rpm	420/1400-3400	500/1600-2800	400/1600-2000	400/1600-2000	420/1400-2600	450/1600-2400	420/1400-3400	500/1600-2800	500/1600-2800	420/1400-2600
ш	Battery (20Hr. rate)			A	80D	80D	80D	80D	80D	80D	80D	80D	80D	80D
ł	Alternator			A	115	115	80	115	80	80	115	115	115	80
	Starter		Madal	KVV	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2
	Transmission		Nodel	1 of	A 794	AC60	AC60	AC60	4 70 A	AC60	4 794	AC60	AC60	4 704
			Geal Rallo	151 2nd	4.704 2.723	2 000	2 000	2 000	4.704	2 000	4.704 2.723	2 000	2.000	4.704 2.723
				3rd	1 443	1 488	1 488	1 488	1 443	1 488	1 443	1 488	1 488	1 443
				4th	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
				5th	0.826	0.687	0.687	0.687	0.826	0.687	0.826	0.687	0.687	0.826
				6th	0.643	0.580	0.580	0.580	0.643	0.580	0.643	0.580	0.580	0.643
				Reverse	4.066	3.732	3.732	3.732	4.066	3.732	4.066	3.732	3.732	4.066
Ī	Differential Gear F	Ratio			3.583	3.909	3.909	4.100	3.583	3.909	3.583	3.909	3.909	3.583
ſ	Front Suspension Coil S	Spring	Size Diameter (upper)	mm	96	96	96	96	96	96	96	96	96	95
			Height (free)	mm	361.3	361.3	361.3	361.3	361.3	361.3	361.3	361.3	361.3	359.8
			Height (set)	mm	265	265	265	265	265	265	265	265	265	265
~			Diameter of wire	mm	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3	15.7
SSIC		0	Rate	N/mm	120	120	120	120	120	120	120	120	120	110
Цä	Rear Suspension Leaf S	Spring		mm	1653*60*8-1	1653*60*8-1	1652*60*8-1	1653*60*8-1	1652*60*8-1	1652*60*8-1	1653*60*8-1	1653*60*8-1	1653*60*8-1	1658*60*9-1
с С			():OPT. Heavy duty		1413*60*8-1	1413*60*8-1	1414*60*9-1	1413*60*8-1	1414*60*9-1	1414*60*9-1	1413*60*8-1	1413*60*8-1	1413*60*8-1	1414*60*9-1
			leat OP I.		1130"60*8-1	1130"60*8-1	1004°60°9-1	1130"60"8-1	1004"60*9-1	1004°60°9-1 700*60*14-1	1130"60*8-1	1130"60*8-1	1130"60*8-1	1130°60°8-1
				-	774*00*46.4	774*60*16 1	790"60"14-1	774*00*46 4	790'60'14-1	790 60 14-1	774*60*16 1	774*00*40 4	774*60*46.4	900 60 15-1
		ŀ	Rate	N/mm	38 1-84 2	38 1-84 2	36.8-95	38 1, 84 2	36 8-85	36.8-95	38 1-84 2	38 1. 84 2	38 1, 84 2	37 8-116
ŀ	Tire Size		Front & Rear	1 11/11/11	265/65R17	265/65R17	265/65R17	265/65R17	265/65R17	265/65R17	265/65R17	265/65R17	265/65R17	225/70R17
		ion>			200,001(11	200,001(11	200,001(11	200,001(17	200,001(17	200,001(11	200,001(11	<265/60R18>	200,001(17	
	Pressu	sure	Front (Loaded)	kPa	200 (230)	200 (230)	200 (230)	200 (230)	200 (230)	200 (230)	200 (230)	200 (230)	200 (230)	200 (200)
		-	Option (Loaded)	kPa								200 (230)		
1				-									+	
			Rear (Loaded)	kPa	200 (250)	200 (250)	200 (250)	200 (250)	200 (250)	200 (250)	200 (250)	200 (250)	200 (250)	200 (250)
			Rear (Loaded) Option (Loaded)	kPa kPa	200 (250)	200 (250)	200 (250)	200 (250)	200 (250)	200 (250)	200 (250)	200 (250) 200 (250)	200 (250)	200 (250)
-	Brake & system Contro	rol Valve	Rear (Loaded) Option (Loaded) LSPV	kPa kPa	200 (250) -	- 200 (250)	200 (250)	200 (250) -	200 (250)	200 (250) -	200 (250) -	200 (250) 200 (250) -	200 (250)	200 (250) -
-	Brake & system Contro Anti-Lo	rol Valve _ock Brał	Rear (Loaded) Option (Loaded) LSPV ke System (ABS) *W/O LSPV	kPa kPa	200 (250) - STD	200 (250) - STD	200 (250) - STD	200 (250) - STD	200 (250) 	200 (250) - STD	200 (250) - STD	200 (250) 200 (250) - STD	200 (250) 	200 (250) - STD

						31	32	33	34	35	36	37	38	39	40
	Destination					New Zealand	Central & South America	Europe	Europe	Europe					
	Body type					Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab
	Drive system					Pre-Runner	Pre-Runner	Pre-Runner	4WD	4WD	4WD	4WD	4WD	4WD	4WD
	Model code					GUN136R-	GUN135L-	GUN135L-	GUN125L-	GUN125L-	GUN126L-	GUN126L-	GUN125R-	GUN125L-	GUN125L-
						BTFSXQ3	BGFXHG3	BGFLXG3	BGFXHG3	BGFLXG3	BGFXJG3	BGFLXG3	BNFSXW3	BNFSXW3	BNFSHW3
	Overall	Length			mm	-	5200		5200		-		5265	5265	5200
Ę		Width (OPT :	: Side step, W	/ith or without)	mm	-	1815 (1800)		1815 (1800)		1815		1815 (1800/1855)	1815 (1800)	1815 (1800)
Isio		Height			mm	1795	1785	 	1785		1795		1795	1795	1795
Jer	Wheel Base				mm	-	3085		3085	 	3085		3090	3090	3085
Ξi	Tread		Front	t	mm	1495	1495	 	1495		1495		1495-1535	1495	1495
۲.			Rear		mm	1510	1510	 	1510		1510		1510-1550	1510	1510
laj c	Cab end to Rear Ax	de			mm			 							
≥	Fuel Tank Capacity				Liters	80	80	 	80		80		80	80	80
	Seating Capacity (C	OPT)			Persons	2	2		2		2		2	2	2
	Unsprung Weight Ax	xle	Front	t	kg	150	150	150	150	150	150	150	150	150	150
			Rear		kg	200	200	200	200	200	200	200	200	200	200
	Chassis and Cab C	urb Weight	Front	t	kg	1045-1055	1050		1180		1165-1190		1190-1230	1200-1240	1220
÷			Rear		kg	590-605	580		610		605-615		600-620	615-625	630
igh			Total		kg	1635-1660	1630		1790		1770-1805		1790-1850	1815-1865	1850
Ne	Gross Vehicle weigh	ht	Front	t	kg	-	1165		1290		1305		1345	1355	1335
_			Rear		kg	-	1585		1580		1695		1735	1725	1745
			Total		kg	2850	2750		2870		3000		3080	3080	3080
	Max. Permissible A	xle Capacity	Front	t	kg	1480	1420	1420	1420	1420	1420	1420	1450	1450	1420
			Rear		kg	1700	1650	1850	1650	1850	1850	1850	1850	1850	1850
Min.	Turning Radius (tire))			m	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
	Engine		Туре			1GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	1GD-FTV(H)	1GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)
			Displacemer	nt	cc	2755	2393	 	2393	 	2755		2393	2393	2393
ne			Max. Power		kW/rpm	150/3400	110/3400	i 	110/3400	i +	130/3400		110/3400	110/3400	110/3400
ngi			Max. Torque	9	N∙m/rpm	420/1400-3400	400/1600-2000		400/1600-2000		420/1400-2600		400/1600-2000	400/1600-2000	440/1600-2000
ш	Battery (20Hr. rate)				А	80D	80D	80D	80D	80D	80D	80D	105D	105D	105D
	Alternator				A	115	80	80	80	80	80	80	115	115	100
	Starter				kW	2.0-2.2	2.0	 	2.0	 	1.9-2.0		2.7	2.7	2.7
	Transmission		Model			RC61	RC60	RC60	RC60	RC60	RC61	RC61	RC60	RC60	RC60
			Gear Ratio		1st	4.784	4.784	 	4.784	 +	4.784		4.784	4.784	4.784
					2nd	2.423	2.423	 	2.423	 	2.423		2.423	2.423	2.423
					3rd	1.443	1.443	! ! 	1.443	 	1.443		1.443	1.443	1.443
					4th	1.000	1.000	 	1.000	 	1.000		1.000	1.000	1.000
					5th	0.826	0.777	 	0.777	 	0.826		0.777	0.777	0.777
					6th	0.643	0.643		0.643		0.643		0.643	0.643	0.643
	Differential	Coor Datia			Reverse	4.066	4.067	i +	4.067	i +	4.000		4.066	4.060	4.06/
	Eropt Supposition	Coil Spring	Size Diam	otor (uppor)	mm	3.383 05	3.583 06	06	3.583	06	3.003 06	06	3.383 07	<u>3.583</u>	3.583 07
	From Suspension	Con Spring		t (free)	mm	90	שט בעי מבט ט	90 DTI- 323 3	90 DU: 25/ 6	90 DH: 25/ 6	90 DU: 25/ 6	90 DU: 25/ 6	31	91 DH: 256 6	91 DH-356.6
			Heigr			359.8	1 H· 357 Ω	Η· 357 Δ	1 H· 250 g	356.6	1 H. 261 2	1 H· 261 2			
			Heigh	ht (set)	mm	265	265	265	265	265	265	265	265	265	265
			Diam	neter of wire	mm	15.7	16.3	16.3	16.5	16.5	16.5	16.5	17 1	17 1	17 1
sis			Rate		N/mm	110	100	100	110	110	110	110	120	120	120
าลร	Rear Suspension	Leaf Spring	Size I * W	V * T-n	mm	1658*60*9-1	1660*60*8-1	1660*60*8-1	1660*60*8-1	1660*60*8-1	1660*60*8-1	1660*60*8-1	1400*60*8-1	1400*60*8-1	1400*60*8-1
Ċ		9		PT. Heavy duty		1414*60*9-1	1410*60*9-1	1408*60*9-1	1410*60*9-1	1408*60*9-1	1410*60*9-1	1408*60*9-1	1240*60*9-1	1240*60*9-1	1240*60*9-1
				leaf OPT		1130*60*8-1	1140*60*9-1	1136*60*9-1	1140*60*9-1	1136*60*9-1	1140*60*9-1	1136*60*9-1	1060*60*9-1	1060*60*9-1	1060*60*9-1
					-	960*60*15-1	964*60*15-1	964*60*15-1	964*60*15-1	964*60*15-1	964*60*15-1	964*60*15-1	900*60*15-1	900*60*15-1	900*60*15-1
						526*60*15-1	535*60*15-1	535*60*15-1	535*60*15-1	535*60*15-1	535*60*15-1	535*60*15-1	660*60*15-1	660*60*15-1	660*60*15-1
			Rate		N/mm	37.8~116	37~115	37~115	37~115	37~115	37~115	37~115	37~115	37~115	37~115
	Tire	Size	Front	t & Rear		225/70R17C	225/70R17C	225/70R17C	225/70R17C	225/70R17C	225/70R17C	225/70R17C	225/70R17C	225/70R17C	225/70R17C
		<option></option>											<265/65R17>		
		Pressure	Front	t (Loaded)	kPa	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)
			Optio	on (Loaded)	kPa	\${	č	·	č	č	ttt	č	230 (230)	\$\$ <i>t</i>	
			Rear	(Loaded)	kPa	240 (300)	240 (300)	240 (300)	240 (300)	240 (300)	240 (300)	240 (300)	240 (300)	240 (300)	240 (300)
			Optio	on (Loaded)	kPa	C				` `			230 (250)		
	Brake & system	Control Valve	e LSPV			-	-	-	-	-	-	-	-		-
		Anti-Lock Bra	ake System (A	ABS) *W/O LSPV	/	STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
		Vehicle Stab	ility Control (V	/SC)		STD	OPT	STD	OPT	STD	-	STD	STD	STD	STD

F					41	42	43	44	45	46	47	48	49	50
	Destination				Europe	Europe	Europe	Europe	Europe	Europe	Europe	Europe	Europe	Europe
_	Body type				Single cab	Single cab	Single cab	Extra cab	Extra cab	Extra cab	Extra cab	Extra cab	Extra cab	Double cab
	Drive system				Pre-Runner	Pre-Runner	Pre-Runner	4WD	4WD	4WD	Pre-Runner	Pre-Runner	Pre-Runner	4WD
	Model code				GUN135L-	GUN135L-	GUN135L-	GUN125R-	GUN125L-	GUN125L-	GUN135L-	GUN135L-	GUN135L-	GUN125R-
	<u> </u>				BNFXXW3	BNFXHW3	BNFLXW3	CNFSXW3	CNFSXW3	CNFSHW3	CNFXXW3	CNFXHW3	CNFLXW3	DNFSXW3
	Overall I	Length		mm	5265	5200		5285	5285	5200	5285	5200	i +	5265
S		Width (OPT :	Side step, With or without)	mm	1800	1800		1855	1855	1855	1855	1855	i +	1855
JSI		Height		mm	1795	1795		1810	1810	1810	1810	1810	 	1815
nei	Wheel Base			mm	3090	3085		3090	3090	3085	3090	3085	! 	3090
<u>D</u>	Tread		Front	mm	1495	1495		1535	1535	1535	1535	1535	! 	1535
o.	<u></u>		Rear	mm	1510	1510		1550	1550	1550	1550	1550	 	1550
/aj	Cab end to Rear Axle	9		mm									 	
~	Fuel Tank Capacity	\ T \		Liters	80	80		80	80	80	80	80	 	80
	Seating Capacity (OP	ין _ר	Frank	Persons	2	2	450	4 (2)	4 (2)	2 (4)	4 (2)	2 (4)	450	5
	Unsprung weight Axie	е	Front	кg	150	150	150	150	150	150	150	150	150	150
-		ula 14/ a : a la 4	Rear	кg	200	200	200	200	200	200	200	200	200	200
	Chassis and Cab Cur	rb weight	Front	kg	1110-1135	1115		1245-1275	1240-1280	1260	1120-1145	1135	i +	1255-1290
Ĕ			Tatal	kg	1745 1745	1725				105		1025	 	1005 2010
eig	Gross Vahiola waight		Front	kg	1250	1720		1305-19/0	1310-1320	1200-1250	1175-1225	1020	<u>+</u>	1360-2010
≥	Gross verificie weight		Rear	ka	1700	1720		18/5-1785	18/0-1780	1860-1800	1825-1765	1835-1775	<u>+</u>	1850
			Total	ka	2050	2050		2150	2150	3150	3000	3000	 	3210
ŀ	Max Permissihle Avia	e Canacity	Front	ka	1450	1420	1450	1450	1450	1420	1450	1420	1450	1450
		o oupdony	Rear	ka	1850	1850	1850	1920	1920	1920	1920	1920	1920	1920
lin T	Turning Radius (tire)		Intelli	m	6.3	6.3	6.3	6.3	6.3	6.4	64	6.4	6.4	6.3
	Engine		Type		2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV(H)
			Displacement	сс	2393	2393		2393	2393	2393	2393	2393		2393
Ð			Max. Power	kW/rpm	110/3400	110/3400		110/3400	110/3400	110/3400	110/3400	110/3400	+ 	110/3400
gin			Max. Torque	N•m/rpm	400/1600-2000	400/160-2000		400/1600-2000	400/1600-2000	400/1600-2000	400/1600-2000	400/1600-2000	+ 	400/1600-2000
ц	Battery (20Hr. rate)			Α	105D	105D	105D	105D	105D	105D	105D	105D	105D	105D
	Alternator			A	115	100	115	115	115	100	115	100	115	115
ŀ	Starter			kW	2.7	2.7		2.7	2.7	2.7	2.7	2.7	+	2.7
	Transmission		Model		RC60	RC60	RC60	RC60	RC60	RC60	RC60	RC60	RC60	RC60
			Gear Ratio	1st	4.784	4.784		4.784	4.784	4.784	4.784	4.784	+	4.784
				2nd	2.423	2.423		2.423	2.423	2.423	2.423	2.423		2.423
				3rd	1.443	1.443		1.443	1.443	1.443	1.443	1.443		1.443
				4th	1.000	1.000		1.000	1.000	1.000	1.000	1.000		1.000
				5th	0.777	0.777		0.777	0.777	0.777	0.777	0.777	 	0.777
				6th	0.643	0.643		0.643	0.643	0.643	0.643	0.643	 	0.643
_				Reverse	4.066	4.067		4.066	4.066	4.067	4.066	4.067	i +	4.066
	Differential	Gear Ratio			3.583	3.583		3.583	3.583	3.583	3.583	3.583		3.583
	Front Suspension	Coil Spring	Size Diameter (upper)	mm	96	96	96	97	97	97	96	96	96	97
			Height (free)	mm	RH: 354.6	RH: 354.6	RH: 354.6	361.3	KH: 356.6	RH: 356.6	RH: 354.6	RH: 354.6	KH: 354.6	361.3
					LH: 359.8	LH: 359.8	LH: 359.8	005	LH: 361.3	LH: 361.3	LH: 359.8	LH: 359.8	LH: 359.8	005
			Height (set)	mm	265	265	265	265	265	265	265	265	265	265
			Diameter of Wire	N/mm	10.7	10.7	10.7	1/.1	17.1	1/.1	10./	10.7	110./	17.1
sis	Rear Suspansion	Loof Spring		IN/11111 mm					I∠U 1400*60*8-1	I∠U 1400*60*8-1	1400*60*8-1	110 1400*60*8-1	1400*60*8 5-1	
as		Lear Spring		11011	1400*60*8-1	1400*60*8-1	1400*60*8-1	1400*60*8-1	(1400*60*9-1)	(1658*60*9-1)	(1400*60*9-1)	(1658*60*9-1)	(1400*60*9-1)	1400*60*8-1
			() OPT Heavy duty		1240*60*9-1	1240*60*9-1	1240*60*9-1	1240*60*9-1	1240*60*9-1	1240*60*9-1 (1414*60*9-1)	1240*60*9-1	1240*60*9-1 (1414*60*9-1)	1240*60*9-1	1240*60*9-1
Ŝ			().or in rioury duty									<u> </u>	L	+
Ÿ			leaf OPT.		1060*60*9-1	1060*60*9-1	1060*60*0-1	1020*60*0-1	1020*60*9-1	1020*60*9-1	1020*60*9-1	1020*60*9-1	1020*60*9-1	1020*60*0-1
CP			leaf OPT.		1060*60*9-1	1060*60*9-1	1060*60*9-1	1020*60*9-1	1020*60*9-1 (1060*60*9-1) 800*60*13-1	1020*60*9-1 (1100*60*9-1) 800*60*13-1	1020*60*9-1 (1060*60*9-1) 800*60*13-1	1020*60*9-1 (1100*60*9-1) 800*60*13-1	1020*60*9-1 (1060*60*9-1) 780*60*14-1	1020*60*9-1
Ch			leaf OPT.		1060*60*9-1 900*60*15-1	1060*60*9-1 900*60*15-1	1060*60*9-1 900*60*15-1	1020*60*9-1 800*60*13-1	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1)	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1)	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1)	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1)	1020*60*9-1 (1060*60*9-1) 780*60*14-1 (860*60*13-1)	1020*60*9-1 800*60*13-1
Ċ			leaf OPT.		1060*60*9-1 900*60*15-1 660*60*15-1	1060*60*9-1 900*60*15-1 660*60*15-1	1060*60*9-1 900*60*15-1 660*60*15-1	1020*60*9-1 800*60*13-1 600*60*13-1	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*13-1)	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (462*60*12-1)	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*13-1)	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (462*60*12-1)	1020*60*9-1 (1060*60*9-1) 780*60*14-1 (860*60*13-1) 400*60*13-1 (680*60*12-1)	1020*60*9-1 800*60*13-1 600*60*13-1
C			leaf OPT.	N/mm	1060*60*9-1 900*60*15-1 660*60*15-1 37~115	1060*60*9-1 900*60*15-1 660*60*15-1 37~115	1060*60*9-1 900*60*15-1 660*60*15-1 37~115	1020*60*9-1 800*60*13-1 600*60*13-1 37-85	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*12-1) 37~85 (42~85)	1020°60°9-1 (1100°60°9-1) 800°60°13-1 (860°60°13-1) 600°60°13-1 (462°60°12-1) 37~85 (41.6~86.1)	1020°60°9-1 (1060°60°9-1) 800°60°13-1 (860°60°13-1) 600°60°13-1 (680°60°12-1) 37~85 (42~85)	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (462*60*12-1) 37~85 (41.6~86.1)	1020*60*9-1 (1060*60*9-1) 780*60*14-1 (860*60*13-1) 400*60*13-1 (680*60*12-1) 39~85 (42~85)	1020*60*9-1 800*60*13-1 600*60*13-1 37~85
C	Tire	Size	Rate	N/mm	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*12-1) 37~85 (42~85) 265/65R17	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (462*60*12-1) 37~85 (41.6~86.1) 265/65R17	1020°60°9-1 (1060°60°9-1) 800°60°13-1 (860°60°13-1) 600°60°13-1 (680°60°13-1 (680°60°12-1) 37~85 (42~85) 265/65R17	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (462*60*12-1) 37~85 (41.6~86.1) 265/65R17	1020*60*9-1 (1060*60*9-1) 780*60*14-1 (860*60*13-1) 400*60*13-1 (680*60*12-1) 39~85 (42~85) 265/65R17	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17
Ċ	Tire	Size <option></option>	Rate Front & Rear	N/mm	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*12-1) 37~85 (42~85) 265/65R17	1020°60°9-1 (1100°60°9-1) 800°60°13-1 (860°60°13-1) 600°60°13-1 (462°60°12-1) 37~85 (41.6~86.1) 265/65R17	1020°60°9-1 (1060°60°9-1) 800°60°13-1 (860°60°13-1) 600°60°13-1 (680°60°12-1) 37~85 (42~85) 265/65R17	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (462*60*12-1) 37~85 (41.6~86.1) 265/65R17	1020*60*9-1 (1060*60*9-1) 780*60*14-1 (860*60*13-1) 400*60*13-1 (680*60*12-1) 39~85 (42~85) 265/65R17	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17
Ċ.	Tire	Size <option> Pressure</option>	Rate Front & Rear Front (Loaded)	N/mm kPa	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240)	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240)	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240)	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17 230 (230)	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*13-1) 37~85 (42~85) 265/65R17 230 (230)	1020°60°9-1 (1100°60°9-1) 800°60°13-1 (860°60°13-1) 600°60°13-1 (462°60°12-1) 37~85 (41.6~86.1) 265/65R17 230 (230)	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*12-1) 37~85 (42~85) 265/65R17 230 (230)	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) (462*60*12-1) 37~85 (41.6~86.1) 265/65R17 230 (230)	1020*60*9-1 (1060*60*9-1) 780*60*14-1 (860*60*13-1) 400*60*13-1 (680*60*12-1) 39~85 (4285) 265/65R17 200 (230)	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17 230 (230)
Ċ	Tire :	Size <option> Pressure</option>	Rate Front & Rear Front (Loaded) Option (Loaded)	N/mm kPa kPa	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240)	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240)	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240)	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17 230 (230)	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*12-1) 37~85 (42~85) 265/65R17 230 (230)	1020°60°9-1 (1100°60°9-1) 800°60°13-1 (860°60°13-1) 600°60°13-1 (462°60°12-1) 37~85 (41.6~86.1) 265/65R17 230 (230)	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*12-1) 37~85 (42~85) 265/65R17 230 (230)	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (462*60*12-1) 37~85 (41.6~86.1) 265/65R17 230 (230)	1020*60*9-1 (1060*60*9-1) 780*60*14-1 (860*60*13-1) 400*60*13-1 (680*60*12-1) 39~85 (42~85) 265/65R17 200 (230)	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17 230 (230)
Ċ	Tire S	Size <option> Pressure</option>	Rate Front & Rear Front (Loaded) Option (Loaded) Rear (Loaded)	N/mm kPa kPa kPa	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240) 240 (300)	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240) 240 (300)	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240) 240 (300)	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*12-1) 37~85 (42~85) 265/65R17 230 (230) 230 (250)	1020°60°9-1 (1100°60°9-1) 800°60°13-1 (860°60°13-1) 600°60°13-1 (462°60°12-1) 37~85 (41.6~86.1) 265/65R17 230 (230) 230 (250)	1020°60°9-1 (1060°60°13-1) 800°60°13-1) 600°60°13-1) (680°60°13-1) (680°60°12-1) 37~85 (42~85) 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (462*60*12-1) 37~85 (41.6~86.1) 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1060*60*9-1) 780*60*13-1 (860*60*13-1) 400*60*13-1 (680*60*12-1) 39~85 (42~85) 265/65R17 200 (230) 200 (250)	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17 230 (230) 230 (250)
Ċ	Tire .	Size <option> Pressure</option>	Rate Front & Rear Front (Loaded) Option (Loaded) Rear (Loaded) Option (Loaded) Option (Loaded)	N/mm kPa kPa kPa kPa kPa	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240) 240 (300)	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240) 240 (300)	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240) 240 (300)	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*12-1) 37~85 (42~85) 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (462*60*12-1) 37~85 (41.6~86.1) 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*12-1) 37~85 (42~85) 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (462*60*12-1) 37~85 (41.6~86.1) 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1060*60*9-1) 780*60*13-1 (860*60*13-1) 400*60*13-1 (680*60*12-1) 39~85 (42~85) 265/65R17 200 (230) 200 (250)	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17 230 (230) 230 (250)
Ğ	Tire	Size <option> Pressure Control Valve</option>	Rate Front & Rear Front (Loaded) Option (Loaded) Rear (Loaded) Option (Loaded) Option (Loaded) Sear (Loaded)	N/mm kPa kPa kPa kPa kPa	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240) 240 (300)	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240) 240 (300)	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240) 240 (300)	1020*60*9-1 800*60*13-1 600*60*13-1 37-85 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*12-1) 37~85 (42~85) 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (462*60*12-1) 37~85 (41.6~86.1) 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*12-1) 37~85 (42~85) 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (462*60*12-1) 37~85 (41.6~86.1) 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1060*60*9-1) 780*60*14-1 (860*60*13-1) 400*60*13-1 (680*60*12-1) 39~85 (42~85) 265/65R17 200 (230) 200 (250)	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17 230 (230) 230 (250)
	Tire	Size <option> Pressure Control Valve Anti-Lock Bra</option>	Rate Front & Rear Front (Loaded) Option (Loaded) Rear (Loaded) Option (Loaded) LSPV ke System (ABS) *W/O LSPV	N/mm kPa kPa kPa kPa kPa	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240) 240 (300)	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240) 240 (300) - STD	1060*60*9-1 900*60*15-1 660*60*15-1 37~115 225/70R17C 240 (240) 240 (300) - STD	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17 230 (230) - - STD	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*12-1) 37~85 (42~85) 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (462*60*12-1) 37~85 (41.6~86.1) 265/65R17 230 (230) - 230 (250)	1020*60*9-1 (1060*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (680*60*12-1) 37~85 (42~85) 265/65R17 230 (230) 230 (250)	1020*60*9-1 (1100*60*9-1) 800*60*13-1 (860*60*13-1) 600*60*13-1 (462*60*12-1) 37~85 (41.6~86.1) 265/65R17 	1020*60*9-1 (1060*60*9-1) 780*60*14-1 (860*60*13-1) 400*60*13-1 (680*60*12-1) 39~85 (42~85) 265/65R17 200 (230) 200 (250) - STD	1020*60*9-1 800*60*13-1 600*60*13-1 37~85 265/65R17 230 (230) - - STD

					51	52	53	54	55,56	57	58	59	60	61
	Destination				Europe	Europe	G.C.C.	G.C.C.	G.C.C.	G.C.C.	G.C.C.	Pakistan	Pakistan	Pakistan
	Body type				Double cab	Double cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab
	Drive system				4WD	4WD	2WD	4WD	2WD	2WD	2WD	2WD	2WD	2WD
	Model code				GUN125L-DNFSXW3	GUN125L-DNFSHW3	TGN121L-BTMLKV3	TGN126L-BTMLKV3	KUN122L-BTMSYV3	GUN122L-BTMLXV3	GUN122L-BTMSXV3	KUN122R-BPMLYP3	GUN122R-BPMLYP3	GUN122R-BPMLXP3
	Overall	Length		mm	5285	5200	-	-	5265	-	-	5200	5265	
c		Width (OPT :	Side step. With or without)	mm	1855	1855	1800		1800		1800	1800	1800	
Sio.		Height		mm	1815	1815	1690	1795	1690	1690	1690	1690	1690	
ens	Wheel Base			mm	3090	3085	-	3090	3085	-	-	3085	3085	
<u>ä</u>	Tread		Front	mm	1535	1535		-	1510		-	1510	1510	
<u> </u>			Rear	mm	1550	1550	-	-	1510	-	-	1510	1510	
ajo	Cab end to Rear Axl	е		mm				<u>+</u>					<u>+</u>	
Σ	Fuel Tank Capacity			Liters	80	80	80	80	80	80	80	80	80	
	Seating Capacity (O	PT)		Persons	5	5	2 (3)	2 (3)	2 (3)	2 (3)	2 (3)	2	2	
	Unsprung Weight Ax	de	Front	kg	150	150	106	150	106	106	106	106	106	106
			Rear	kg	200	200	180	200	180	180	180	180	180	180
	Chassis and Cab Cu	urb Weight	Front	kg	1255-1300	1275	895-900	1060-1070	945-985	995-1025	1000-1025	960	945-970	
ц			Rear	kg	710-720	720	540-555	570-580	510-525	540-560	550-560	520	510-530	
igh			Total	kg	1965-2020	1995	1435-1455	1630-1650	1455-1510	1535-1585	1550-1585	1480	1455-1500	
Ne	Gross Vehicle weigh	nt	Front	kg	1370	1345	1015-1055	1185-1220	1105-1145	1140-1180	1140-1180	1080	1090	
_			Rear	kg	1840	1865	1685-1645	1595-1560	1705-1665	1710-1670	1710-1670	1730	1760	
			Total	kg	3210	3210	2700	2780	2810	2850	2850	2810	2850	
	Max. Permissible Ax	le Capacity	Front	kg	1450	1420	1200	1400	1200	1200	1200	1200	1200	1200
			Rear	kg	1920	1920	1750	1650	1750	1750	1750	1750	1750	1750
Min.	Turning Radius (tire)		1	m	6.3	6.4	5.9	6.3	5.9	5.9	5.9	5.9	5.9	5.9
	Engine		Туре		2GD-FTV(H)	2GD-FTV(H)	2TR-FE	2TR-FE	2KD-FTV	2GD-FTV	2GD-FTV	2KD-FTV	2GD-FTV	2GD-FTV
			Displacement	CC	2393	2393	2694	2694	2494	2393	2393	2494	2393	
ne			Max. Power	kW/rpm	110/3400	110/3400	122/5200	122/5200	75/3600	110/3400	110/3400	75/3600	110/3400	
ngi			Max. Torque	N∙m/rpm	400/1600-2000	400/1600-2000	245/4000	245/4000	200/1200-3400	343/1400-2800	343/1400-2800	200/1200-3400	343/1400-2800	
ш	Battery (20Hr. rate)			A	105D	105D	34B	34B	80D	80D	80D	80D26L	80D26L	80D26L
	Alternator			A	115	100	80	80	100	100	100	80	80	80
	Starter		1	kW	2.7	2.7	1.6	1.6	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	
	Transmission		Model		RC60	RC60	R151	R151	R151	R151	R151	R151	R151	R151
			Gear Ratio	1st	4.784	4.784	4.313	4.313	4.313	4.313	4.313	4.313	4.313	
				2nd	2.423	2.423	2.330	2.330	2.330	2.330	2.330	2.330	2.330	
				3rd	1.443	1.443	1.436	1.436	1.436	1.436	1.436	1.436	1.436	
				4th	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
				5th	0.777	0.777	0.838	0.838	0.838	0.838	0.838	0.838	0.838	
				otn	0.643	0.643	-	- 4 220	-	-	-		-	
	Differential	Coor Datia		Reverse	4.000	4.007	4.220	4.220	4.220	4.220	4.220	4.220	4.220	
	Eropt Suppopular		Siza Diamatar (uppar)	~~~	3.303	3.303	4.100	4.000	4.300	120.2	3.000	4.300	120.2	120.2
	FION Suspension	Coll Spring	Size Diameter (upper)	mm	97 DU-35661U-3613	97 PU: 256 6 1 U: 261 2	206	254.6	206	PU: 206 5 1 U: 201	I J J J J J J J J J J J J J J J J J J J	201.1	206.5	206 5
			Height (nee)	mm	265	265	100	265	100	100	100	100	290.5	290.5
			Diameter of wire	mm	17.1	17.1	16.7	15.5	16.7	17.3	17 3	167	17 3	17 3
			Rate	N/mm	120	120	80.1	110	80.1	88.4	88.4	80.1	88.4	88.4
<u>.</u>	Rear Suspension	Leaf Spring	Size I * W * T-n	mm	1400*60*8-1	1400*60*8-1	1500*60*0 4	1650*60*0 4	1500*00*0 4	1500*00*0 4	1500*00*0 4	1500*60*0 4	1500*00*0 4	1500*00*0 4
SS		Lear Oping			(1400*60*9-1)	(1658*60*9-1)	1509*60*8-1	1658"60"9-1	1509"60"8-1	1509"60"8-1	1509"60"8-1	1509"60"8-1	1509*60*8-1	1509*60*8-1
Che			():OPT. Heavy duty		1240*60*9-1	(1414*60*9-1)	1283*60*8-1	1414*60*9-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1
Ŭ			leaf OPT.		1020*60*9-1 (1060*60*9-1)	1020*60*9-1 (1100*60*9-1)	998*60*8-1	1130*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	1030*60*8-1	998*60*8-1	998*60*8-1
					800*60*13-1 (860*60*13-1)	800*60*13-1 (860*60*13-1)	815*60*14-1	960*60*15-1	815*60*14-1	815*60*14-1	815*60*14-1	845*60*14-1	815*60*14-1	815*60*14-1
					600*60*13-1 (680*60*12-1)	600*60*13-1 (462*60*12-1)	517*60*13-1	526*60*15-1	517*60*13-1	517*60*13-1	517*60*13-1	600*80*13-1	517*60*13-1	517*60*13-1
			Rate	N/mm	37~85 (42~85)	37~85 (41 6~86 1)	40 1~116	37 8~116	40 1~116	40 1~116	40.1~116	40 1~116	40.1~116	40 1~116
	Tire	Size	Front & Rear		265/65R17	265/65R17	215/65R16C	225/70R17C	205/70R15C	215/65R16C	215/65R16C	205/70R15C	205/70R15C	205/70R15C
		<option></option>							<215/65R16C>					
		Pressure	Front (Loaded)	kPa	230 (230)	230 (230)	240 (240)	240 (240)	205 (260)	240 (240)	240 (240)	260 (260)	260 (260)	260 (260)
			Option (Loaded)	kPa	<u>\</u>	```	```	`	215 (240)	·	<u>`</u>	<u>`</u>	·	
			Rear (Loaded)	kPa	230 (250)	230 (250)	290 (370)	240 (300)	330 (450)	290 (370)	290 (370)	330 (450)	330 (450)	330 (450)
			Option (Loaded)	kPa					290 (370)	·				
	Brake & system	Control Valve	e LSPV		-	-	-	-	-	-	-	OPT	-	-
		Anti-Lock Bra	ake System (ABS) *W/O LSPV		STD	STD	STD	STD	STD	STD	STD	STD*	STD	STD
		Vehicle Stabi	ility Control (VSC)		STD	STD	STD	STD	OPT	STD	STD	OPT	-	-

						62	63	64	65	66	67	68	69	70	71
	Destination					Philippines	Philippines	Thailand	Thailand	Thailand	Thailand	Thailand	General (Mexico)	General (Mexico)	Kenya
	Body type					Single cab	Single cab	Single cab							
	Drive system					2WD	2WD	4WD							
	Model code					GUN122L-	GUN122L-	GUN120R-	GUN120R-	GUN122R-	GUN122R-	GUN122R-	TGN121L-	TGN121L-	GUN125R-
						BTMXYM3	BTMLXM3	BTTXHT3	BTTLXT3	BTMXYT3	BTFXYT3	BTFLXT3	BTMXK3	BTMLK3	BNFSHN3
	Overall	Length			mm	5265	-	5265	-	5265	5265	-	5265	-	5335
c		Width (OPT :	Side st	ep, With or without)	mm	1800		1800		1800	1800		1800 (1815)	1800 (1815)	1815 (1800)
sio		Height			mm	1690	1690	1690	1690	1690	1690	1690	1690	1690	1795
en	Wheel Base				mm	3085	-	3085	3085	3085	3085	3085	3085	3085	3090
<u> </u>	Tread			Front	mm	1510	-	1510	1510	1510	1510	1510	1510	1510	1495
Ď				Rear	mm	1510		1510	1510	1510	1510	1510	1510	1510	1510
Эjо	Cab end to Rear Axle	ż			mm										
ŝ	Fuel Tank Capacity	-			Liters	80	80	80	80	80	80	80	80	80	80
	Seating Capacity (O	PT)			Persons	2	3	2	2	2 (3)	3	3	2	2 (3)	3 (2)
	Unsprung Weight Ax	le		Front	ka	106	106	106	106	106	106	106	106	106	150
				Rear	ka	180	180	180	180	180	180	180	180	180	200
	Chassis and Cab Cu	rb Weight		Front	ka	985-990	970-985	1025-1025	1025-1035	1000	1005-1010	1005-1010	925-940	925-930	1200
		io moight		Rear	ka	520-525	520-525	545-550	545-550	545	540-550	540-550	545-560	545-550	640-650
ght				Total	ka	1505-1515	1505-1510	1570-1575	1580-1585	1545	1545-1560	1545-1560	1470-1500	1470-1480	1840-1850
/ei	Gross Vehicle weigh	t		Front	ka	1105-1110	1145	1145	1155-1150	1120-1160	1165	1165	1040-1095	1040-1085	1350-1310
\leq		-		Rear	ka	1730-1725	1705	1705	1695-1700	1730-1690	1685	1685	1660-1605	1660-1615	1520-1560
				Total	ka	2835	2850	2850	2850	2850	2850	2850	2700	2700	2870
	Max. Permissible Av	e Capacity		Front	ka	1200	1200	1200	1200	1200	1200	1200	1200	1200	1420
		e capacity		Rear	ka	1750	1750	1750	1750	1750	1750	1750	1750	1750	1650
Min.	Turning Radius (tire)				m	5.9	5.9	6.4	5.9	5.9	6.4	5.9	5.9	5.9	6.3
	Engine		Type			2GD-FTV	2GD-FTV	2GD-FTV(H)	2GD-FTV(H)	2GD-FTV	2GD-FTV	2GD-FTV	2TR-FE	2TR-FE	2GD-FTV(H)
			Displa	cement	CC	2393	2393	2393	2393	2393	2393	2393	2694	2694	2393
Φ			Max.	Power	kW/rpm	110/3400	110/3400	110/3400	110/3400	110/3400	110/3400	110/3400	122/5200	122/5200	110/3400
gin			Max.	Forque	N•m/rpm	343/1400-2800	343/1400-2800	400/1600-2000	400/1600-2000	343/1400-2800	343/1400-2800	343/1400-2800	245/4000	245/4000	400/1600-2000
Ш	Battery (20Hr rate)			- 1	Α	80D	80D	80D	80D-105D	80D	80D	80D-105D	55D	55D	80D
	Alternator				A	80	80	80	80-100	80	80	80-100	80	80	80
	Starter				kW	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	2.0-2.2	1.6	1.6	1.9-2.0
	Transmission		Model			R151	R151	AC60	AC60	R151	RC60	RC60	R151	R151	RC60
			Gear I	Ratio	1st	4.313	4.313	3.600	3.600	4.313	4.784	4.784	4.313	4.313	4.784
					2nd	2.330	2.330	2.090	2.090	2.330	2.423	2.423	2.330	2.330	2.423
					3rd	1.436	1.436	1.488	1.488	1.436	1.443	1.443	1.436	1.436	1.443
					4th	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
					5th	0.838	0.838	0.687	0.687	0.838	0.777	0.777	0.838	0.838	0.777
					6th	-	-	0.580	0.580	-	0.643	0.643	-	-	0.643
					Reverse	4.220	4.220	3.732	3.732	4.220	4.067	4.066	4.220	4.220	4.066
	Differential	Gear Ratio				3.583	3.583	3.583	3.583	3.583	3.583	3.583	4.100	4.100	3.583
	Front Suspension	Coil Spring	Size	Diameter (upper)	mm	138.7	139.3	139.3	139.3	139.3	139.3	139.3	138.7	138.7	97
	-			Height (free)	mm	RH: 296	RH: 296.5	206 5	206 5	206 5	206 F	206 F	206	206	256 6
						LH: 301.1	LH: 301	290.0	290.0	290.3	290.0	290.0	290	290	0.000
				Height (set)	mm	199	199	199	199	199	199	199	199	199	265
S				Diameter of wire	mm	16.7	17.3	17.3	17.3	17.3	17.3	17.3	16.7	16.7	17.1
SSI				Rate	N/mm	80.1	88.4	88.4	88.4	88.4	88.4	88.4	80.1	80.1	120
iha	Rear Suspension	Leaf Spring	Size	L * W * T-n	mm	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1509*60*8-1	1400*60*8-1
0				():OPT. Heavy duty		1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1283*60*8-1	1240*60*9-1
				leaf OPT.		998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	998*60*8-1	1060*60*9-1
						815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	815*60*14-1	900*60*15-1
						517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	517*60*13-1	660*60*15-1
			Rate		N/mm	40.1~116	40.1~116	40.1~116	40.1~116	40.1~116	40.1~116	40.1~116	40.1~116	40.1~116	37~115
	Tire	Size		Front & Rear		205/70R15C	205/70R15C	225/70R17C							
		<option></option>				<215/65R16C>	<215/65R16C>	<265/65R17>							
		Pressure		Front (Loaded)	kPa	260 (260)	260 (260)	260 (260)	260 (260)	260 (260)	260 (260)	260 (260)	260 (260)	260 (260)	240 (240)
				Option (Loaded)	kPa	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	240 (240)	200 (230)
				Rear (Loaded)	kPa	330 (450)	330 (450)	330 (450)	330 (450)	330 (450)	330 (450)	330 (450)	330 (450)	330 (450)	240 (300)
				Option (Loaded)	kPa	290 (370)	290 (370)	290 (370)	290 (370)	290 (370)	290 (370)	290 (370)	290 (370)	290 (370)	200 (250)
	Brake & system	Control Valve		LSPV		-	-	-	-	-	-	-		-	-
		Anti-Lock Bra	ike Sys	tem (ABS) *W/O LSPV		STD	STD	STD							
		Vehicle Stabil	lity Con	trol (VSC)		OPT	-	OPT	OPT	OPT	OPT	OPT	OPT	OPT	OPT

				72	73	74	75	76	77	78	79	80	81		
	Destination				Kenya	Kenya	S. Africa	S. Africa	S. Africa	S. Africa	S. Africa	S. Africa	W. Africa	W. Africa	
	Body type				Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	Single cab	
	Drive system	rive system			4WD	4WD	2WD	2WD	2WD	2WD	4WD	4WD	4WD	4WD	
	iodel code			GUN125R-	GUN125R-	TGN120R-	TGN120R-	GUN122R-	GUN122R-	GUN125R-	GUN125R-	LAN125L-	LAN125L-		
				BNFXHN3	BNFLXN3	BNMXKN3	BNMLKN3	BNMXYN3	BNMLXN3	BNFSHN3	BNFSXN3	BNMXEN3	BNMLEN3		
nsion	Overall	Length			mm	5335		5265-5335		5265		5335		5265-5335	
		Width (OPT : Side step, With or without)		mm	1855		1800		1800		1815 (1800)		1800 (1815)		
		Height mm			mm	1815		1690		1690		1795		1795	
ne	vvneel Base				mm	3090		3085		3085		3090		3090	
Ū	Tread	Front mi			mm	1535		1510		1510		1495		1505	
jor	Cab and to Rear Ayle			mm	1550		1510		1510		1510		1520	i 	
Ma					•••		•••		•••		•^		•^	 	
_	Septing Capacity (OPT)			Borconc	2 (2)		2 (2)		2 (2)		2 (2)		2 (2)	 	
	Linsprung Weight Av	(F) (le		Front	ka	2 (3)	150	2 (3)	106	2 (3)	106	2 (3)	150	2 (3)	150
Veight	Chassis and Cab Curb Weight Rear kg Rear kg Rear kg Total kg			kg	200	200	180	180	180	180	200	200	200	200	
				ka	1140-1180	200	875-880	100	1005-1010	100	1200	200	1090-1115	200	
				ka	580-630		535-540		550-555		640-650		570-605	 	
				ka	1725-1810		1410-1420		1555-1565		1840-1850		1660-1720	<u>+</u>	
	Gross Vehicle weight Front ka			ka	1290-1330		995-1035		1120-1165		1350-1310		1225-1265	<u>+</u>	
S				Rear	kg	1580-1540		1705-1665		1690-1645		1520-1560		1595-1555	
				Total	kg	2870		2700		2810		2870		2820	
	Max. Permissible Ax	le Capacity		Front	kg	1420	1420	1200	1200	1200	1200	1420	1420	1400	1400
				Rear	kg	1650	1650	1750	1750	1750	1750	1650	1650	1650	1650
Min.	Turning Radius (tire)				m	6.3	6.3	5.9	5.9	5.9	5.9	6.3	6.3	6.1	6.1
ngine	Engine		Туре			2GD-FTV(H)	2GD-FTV(H)	1TR-FE	1TR-FE	2GD-FTV	2GD-FTV	2GD-FTV(H)	2GD-FTV(H)	5L-E	5L-E
	Displacement Max. Power		acement	CC	2393		1998		2393		2393		2986		
			kW/rpm	110/3400		102/5600		110/3400		110/3400		70/4000	 		
	Max. Torque			N∙m/rpm	400/1600-2000		183/4000		343/1400-2800		400/1600-2000		197/2200		
ш	Battery (20Hr. rate)			A	80D	80D-105D	55D	55D	80D	80D-105D	80D	80D-105D	105D	105D	
	Alternator			A	80	80-100	80	80	80	80-100	80	80-100	90	90	
	Starter			kW	1.9-2.0		1.4		1.9-2.0		1.9-2.0		2.2		
	Iransmission		Model			RC60	RC60	R151	R151	R151	R151	RC60	R151	<u>R151</u>	R151
	Gear Ratio		Ratio	1st	4.784		4.313		4.313		4.784		4.313	 	
				2nd	2.423		2.330		2.330		2.423		2.330	i 	
				310	1.443		1.430		1.430		1.443		1.430	i +	
				401 5th	0.777		1.000		1.000		0.777		1.000	 	
					6th	0.643		0.030		0.030		0.6/3		-	
				Reverse	4 066		4 220		4 220		4.066		4 220		
	Differential Gear Ratio			1.000100	3.583		4.555		3.583		3.583		4.300	+	
	Front Suspension Coil Spring		Size Diameter (upper)		mm	97	140	140	140	140	140	97	140	96	96
	Tront Suspension			Height (free)	mm	050.0					000.4	050.0	004.4	RH: 354.6	RH: 354.6
						356.6	301.1	303.1	303.1	296.4	296.4	356.6	301.1	LH: 359.8	LH: 359.8
				Height (set)	mm	265	199	199	199	199	199	265	199	265	265
s				Diameter of wire	mm	17.1	17.7	16.6	16.6	17.7	17.7	17.1	17.7	16.7	16.7
hassi				Rate	N/mm	120	88.4	70.4	70.4	88.4	88.4	120	88.4	110	110
	Rear Suspension	Leaf Spring	Size	L * W * T-n	mm	1400*60*8-1	1400*60*8-1	1270*60*8-1	1270*60*8-1	1270*60*8-1	1270*60*8-1	1400*60*8-1	1400*60*8-1	1400*60*8-1	1400*60*8-1
0				():OPT. Heavy duty		1240*60*9-1	1240*60*9-1	1120*60*8-1	1120*60*8-1	1120*60*8-1	1120*60*8-1	1240*60*9-1	1240*60*9-1	1240*60*9-1	1240*60*9-1
				leaf OPT.		1060*60*9-1	1060*60*9-1	980*60*8-1	980*60*8-1	980*60*8-1	980*60*8-1	1060*60*9-1	1060*60*9-1	1060*60*9-1	1060*60*9-1
						900*60*15-1	900*60*15-1	860*60*14-1	860*60*14-1	860*60*14-1	860*60*14-1	900*60*15-1	900*60*15-1	900*60*15-1	900*60*15-1
						660*60*15-1	660*60*15-1	510*60*14-1	510*60*14-1	510*60*14-1	510*60*14-1	660*60*15-1	660*60*15-1	660*60*15-1	660*60*15-1
		0.	Rate		N/mm	37~115	37~115	40~115	40~115	40~115	40~115	37~115	37~115	37~115	37~115
	lire	Size	Size Front & Rear			205R16C	225/70R17C	205/70R15C	205/70R15C	205/70R15C	215/65R16C	225/70R17C	225/70R17C	205R16C	205R16C
					kDo		<205K16C>	<215/65K16C>	<215/65K16U>	<215/65K16C>	<205/70K15C>	<205/05K1/>	<205/05K1/>	270 (270)	270 (270)
	Brake & system Control Valve		re Front (Loaded) Option (Loaded) Rear (Loaded) Option (Loaded)		кна	210 (210)	240 (240)	260 (260)	260 (260)	200 (200)	240 (240)	240 (240)	240 (240)	210 (210)	270 (270)
					kPo	270 (240)	210 (210)	240 (240)	230 (150)	240 (240)	200 (200)	200 (230)	200 (230)	270 (240)	270 (240)
					кга kPa	210 (340)	240 (300)	290 (370)	290 (430)	290 (450)	230 (370)	240 (300)	240 (300)	210 (340)	∠ <i>i</i> ∪(340)
						+	-	-	-	-	-	-	-		-
		Anti-Lock Bra	ake Svs	tem (ABS) *W/O LSPV		STD	STD	STD	STD	STD	STD	STD	STD	STD	STD
		Vehicle Stabi	lity Cor	ntrol (VSC)		-	OPT	OPT	OPT	OPT	OPT	OPT	STD	-	
									1

			82	83			
	Destination		Angola	Angola			
	Body type		Single cab	Single cab			
	Drive system			4WD	4WD		
	Model code					GUN1251 -	GUN125I -
						BNFXHN3	BNFLXN3
	Overall	Lenath			mm	5335	
~		Width (OPT :	Side st	tep. With or without)	mm	1815	
<u>sio</u>		Height	0.000		mm	1795	
eU	Wheel Base	1.10.9.11			mm	3090	
<u>.</u>	Tread			Front	mm	1505-1495	
õ				Rear	mm	1520-1510	
ajo	Cab end to Rear Ax	e			mm		
ŝ	Fuel Tank Capacity	-	Liters	80			
	Seating Capacity (O	PT)	Persons	2 (3)			
	Unsprung Weight Ax	'le		ka	150	150	
				Rear	ka	200	200
	Chassis and Cab Cu	ırh Weight		Front	ka	1180-1185	200
		no worgin		Rear	ka	635-640	
<u>j</u> ht			ka	1815-1825			
/eić	Gross Vehicle weigh	t		Front	ka	1290-1335	
\$		-		Rear	ka	1580-1535	
				Total	ka	2870	
	Max. Permissible Av	le Capacity		Front	ka	1400	1400
		lo oupdoity		Rear	ka	1650	1650
Min .	Turning Radius (tire)			rtour	m	61-63	6 1-6 3
•	Engine		Type			2GD-FTV(H)	2GD-FTV(H)
	Lingino		Displa	cement	CC	2393	
Φ			Max F	Power	kW/rpm	110/3400	
gin			Max.	Torque	N•m/rpm	400/1600-2000	
С́Ш	Battery (20Hr. rate)		marti	Δ	800	8	
	Alternator		Δ	90-80	80		
	Starter				kW	1 9-2 0	
	Transmission		Model			RC60	
			Gear	Ratio	1st	4 784	
			.		2nd	2.423	
					3rd	1.443	
					4th	1.000	
					5th	0.777	
					6th	0.643	
					Reverse	4.066	
	Differential	Gear Ratio				3.583	
	Front Suspension	Coil Spring	Size	Diameter (upper)	mm	96	97
	'	1 0		Height (free)	mm	RH: 354.6	RH: 356.6
				5 ()		LH: 359.8	LH: 361.3
				Height (set)	mm	265	265
ŝ				Diameter of wire	mm	16.7	17.1
SSI				Rate	N/mm	110	120
ha	Rear Suspension	Leaf Spring	Size	L * W * T-n	mm	1400*60*8-1	1400*60*8-1
S				():OPT. Heavy duty	-	1240*60*9-1	1240*60*9-1
				leaf OPT.	-	1060*60*9-1	1060*60*9-1
						900*60*15-1	900*60*15-1
						660*60*15-1	660*60*15-1
			Rate		N/mm	37~115	37~115
	Tire	Size		Front & Rear		205R16C	225/70R17C
		<option></option>				<225/70R17C>	<205R16C>
		Pressure		Front (Loaded)	kPa	270 (270)	270 (270)
				Option (Loaded)	kPa	240 (240)	240 (240)
				Rear (Loaded)	kPa	270 (340)	270 (340)
				Option (Loaded)	kPa	240 (300)	240 (300)
	Brake & system	Control Valve		LSPV	-	-	
		Anti-Lock Bra	ike Sys	tem (ABS) *W/O LSPV	STD	STD	
		Vehicle Stabi	lity Cor	trol (VSC)	OPT	OPT	



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